

# Federal Trade Commission Report

# "TAR", NICOTINE AND CARBON MONOXIDE OF THE SMOKE OF 207 VARIETIES OF DOMESTIC CIGARETTES

JANUARY 1985

# REPORT OF "TAR", NICOTINE AND CARBON MONOXIDE OF THE SMOKE OF 207 VARIETIES OF DOMESTIC CIGARETTES

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The Federal Trade Commission's Laboratory has determined the "tar" (dry particulate matter), total alkaloid (reported as nicotine) and carbon monoxide content of 207 varieties of cigarettes. The laboratory utilized the Cambridge filter method with the following specifications as set forth in the Commission's announcement July 31, 1967 and July 10, 1980:

- 1. Smoke cigarettes to a 23mm. butt length, or to the length of the filter and overwrap plus 3mm. if in excess of 23mm.
- Base results on a test of approximately
   90 cigarettes per brand, or type.
- Cigarettes to be tested will be selected on a random basis, as opposed to "weight selection".
- 4. Determine particulate matter on a "dry" basis employing the gas chromatography method published by C.H. Sloan and B.J. Sublett in Tobacco Science 9, page 70, 1965, as modified by F.J. Schlutz' and A.W. Spears' report published in Tobacco, vol. 162, no. 24, page 32, date June 17, 1966, to determine the moisture content.
- Determine and report "tar" content after subtracting moisture and alkaloids (as nicotine) from particulate matter.
- Carbon monoxide is determined by nondispersal infrared spectrophotometer.

Concerning the 207 varieties tested, 15 were capable of being smoked to 23mm. The butt length of the other 192 varieties tested ranged from 24.6mm. to an average of between 43.0 to 44.1mm. The butt length of 165 of the 207 varieties tested exceeded 30mm.

The samples used were obtained by attempting to purchase two packages of each variety of cigarettes as distributed by domestic cigarette manufacturers during October 1983 to January 1984) in each of 50 geographic locations throughout the country. Not all varieties were available in each of the 50 geographic locations and in these instances, one or more additional packages of cigarettes were purchased in those geographic locations where respective varieties were available. The samples utilized in the tests were representative of the 207 varieties of cigarettes as available throughout the country at the time of purchase.

In the table listing the cigarette varieties in alphabetical order "tar" and carbon monoxide content is reported to the nearest 0.1 milligram and the nicotine to the nearest 0.01 milligram, each with appropriate statistical values. The average weight is reported in grams per cigarette and the butt length range to the nearest 0.1 millimeter. In all other tables the average weight and butt length columns and the figures representing the standard deviation of the mean have been eliminated. The "tar" and carbon monoxide figures have been rounded to the nearest milligram (0.5 milligrams and greater rounded up, 0.4 milligrams and less rounded down) and the nicotine figures have been rounded to the nearest tenth of a milligram (0.05 milligrams and greater rounded up, 0.04 milligrams and less rounded down). Three tables respectively list varieties in increasing order of "tar" values, in increasing order of nicotine values and in increasing order of carbon monoxide values. Accordingly, "tar", nicotine and carbon monoxide figures in the tables represent rounded off averages without indication of their precision.

It should be noted that cigarette brands with assay results for "tar" and carbon monoxide below 0.5 mg. per cigarette and for nicotine below 0.05 mg. per cigarette are recorded in the accompanying tables with asterisks (\*) indicating that they are below 0.5 mg. "tar", 0.05 mg. nicotine and 0.5 mg. carbon monoxide. The tables do not differentiate and no ranking is intended between these cigarettes because the current, approved testing methodology is not sensitive enough to differentiate between cigarettes at these levels.

On April 13, 1983, the Commission announced its determination that its present testing methodology for "tar", nicotine and carbon monoxide does not measure accurately Brown & Williamson's Barclay cigarettes and in fact understates the measured deliveries of these products. Therefore, it announced that until it adopts a new testing methodology that is able to measure Barclay cigarettes, future FTC Tar, Nicotine & Carbon Monoxide Reports will not include test results for Barclay cigarettes. As a result, no test results for Barclay cigarettes are included within this report. At that same time the Commission also found that there was significant likelihood that the same problem (namely, an inaccurate reporting of the "tar", nicotine and CO delivery) existed with respect to Kool Ultra and Kool Ultra 100's, two other brands of cigarettes manufactured

by Brown & Williamson. However, the Commission has not yet reached any conclusion whether Kool Ultra and Kool Ultra 100's are ranked inappropriately. Therefore, two asterisks (\*\*) have been appended to Kool Ultra and Kool Ultra 100's in this report to indicate this continuing controversy.

#### TAR HICOTINE AND CARBON MONOXIDE CONTENT OF TWO HUNDRED SEVEN VARIETIES OF DOMESTIC CIGARETTES

BRAND   TESTED	TYPE CODE	LNGTH TESTO	AVG. WEIGHT	BUTT LENGTH	TPM DRY	HICOTINE CONTENT	CARBON MOHOXIDE
						********	POHOVING
ALPINE	F; SP; M	BSMM	0.9882	28.0-31.0MM	15.6+0.4	0.95+0.03	14.2+0.5
BELAIR. BELAIR 100	F; SP; M	BSMM	0.9046	32.4-34.7MM	10.0+0.3	0.74+0.02	9.5+0.4
BENSON & HEDGES	F; SP; M	100MM	1.0729	38.2-40.1MM	8.0+0.3	0.81+0.02	7.5+0.4
BENSON & HEDGES	R; F; MP	70MM	0.9642	31.3-35.2MM	1.2+0.1	0.07+0.01	1,5+0,2
SENSON & HEDGES 100	F: HP	85MM	1,0027	32.2-33.4MM	14.8+0.3	1.10+0.03	11.5+0.6
BENSON & MEDGES 100	F; HP	100MM	1.1087	34.2-35.8MM	15.8+0.4	1.02+0.02	14.7+0.6
BENSON & MEDGES 100	F; HP; M	100MM	1,1228	34.2-35,7MM	16.1+0.4	1.01+0.03	14.5+0.4
BENSON & HEDGES 100	F. SP F. SP. M	100MM	1.1234	35.8-37.0MM	15.9+0.3	1.03+0.02	14.9+0.5
BENSON & MEDGES LIGHTS 100	f: SP	100MM	1.1258	34.1-35.9MM	15.7+0.3	1.04+0.03	15.1+0.4
BENSON & MEDGES LIGHTS 100	F: SP: M	LOOMM	1.1040	37.8-40.8MM	10.1+0.3	0.73+0.03	. 11,2+0,4
BENSON & HEDGES LIGHTS 100	•	100MM	1.1180	38.1-39.8MM	9.6+0.2	0.70+0.02	10.1+0.3
BENSON & HEDGES ULTRA LIGHTS	F: HP	-100MM	0.9846	38.0-40.6MM	5.0+0.3	0.40+0.02	5.2+0.4
	F; HP; M	100MM	1.0103	3B,2-40,0MM	5,2+0.2	0.42+0.01	5,3+0,3
DRIGHT ; BRIGHT 100	f: SP; M	85MM	0.8858	34.1-35,7MM	6.1+0.3	0.52+0.02	<u> </u>
BULL DURMAN	F; SP; M	IOGMM	1.0768	39.1-40.0MM	6.0+0.3	0.52+0.02	7.4+0.5
CAMBRIDGE	F: SP	85MM	1.1971	25.6-28.9MM	27.7+0.4	1.63+0.05	23.0+0.5
CAMBRIDGE	F, HP	85MM	0.8878	38.2-39.7MM	*	*	, <b>*</b>
CAMBRIDGE 100	F; SP	85MM	0.8415	34.6-36.0MM	0.8+0.1	0.08+0.01	1.0+0.2
CAMEL	F SP	100MM	0.9802	38.7-40.1MM	4,7+0.2	0.44+0.02	5.5+0.3
CAMEL	R; NF; SP	70MM	0.8360	23.0MM	21.2+0.5	1.40+0.04	12.9+0.4
CAMEL	F; HP	MMG8	0.9016	25.7-26.8MM	18,1+0.3	1.08+0.03	14.6+0.4
	F; SP	BSMM	0.9554	27.3-29.2MM	15.6+0.3	1.07+0.03	14.3+0.3
CAMEL LIGHTS CAMEL LIGHTS	F, HP	80MM	0.9260	28.5-31.0MM	8.8+0.3	0.69+0.04	8.4+0.5
	F; SP	85MM	0.9577	32,5-34,7MM	8.3+0.3	0.66+0.02	10.1+0.4
CAMEL LIGHTS 100 CARLTON	F; SP	HOOMM	1.1193	36.2-38,1MM	11,5+0,4	0.83+0.03	13.7+0.5
CARLTON	F, HP	85MM	0.8333	37.0-41,4MM	*	* *	· _ *_
CARLTON	F; \$P	85MM	0.7767	33.0-35.1MM	1.3+0.1	0,11+0.01	1.6+0.2
CARLTON 100	F; SP; M	BSMM	0.7740	32.0-34.9MM	0.B+0.1	0.07+0.01	0.9+0.1
CARLTON 100	F; HP	100MM	0.9085	37.1-38.1MM	0.6+0.1	0.05+0.01	*
CARLTON 100	F; HP; M F; SP	100MM	0.8946	37.9-38.2MM	*	**	*
CARLTON 100		1 DOMM	0.9260	33.8-36,9MM	4.6+0.2	0.40+0.02	5.8+D.4
CARLTON 120		100MM 120MM	0.9209	33.9-36.8MM	4.7+0.3	0.41+0.02	5.7+0.5
CARLTON 120	Fi SP Fi SPi M	120MM	0,9785	36,1-39,0MM	6.8+0.4	0.59+0.02	5.1+0.4
CENTURY			0.9767	36.7-39.5MM	7.1+0.3	0.62+0.02	5,3+0,4
CENTURY LIGHTS	Fi SP Fi SP	85MM	0.8623	29.7-30.8MM	14.2+0.4	0.94+0.03	15.0+0.5
CHESTERFIELD	A HF SP	# 70MM	0.9109 0.8504	33.6-34.3MM	9,1+0.3	0,69+0.02	10.3+0.2
CHESTERFIELD	NF; SP	85MM		23.0MM	18.9+0.3	1,22+0.03	11.0+0.3
DORADO	F, SP	85MM	1.0193	23.0MM	22.2+0.5	1.52+0.05	12,6+0,4
DORAL II	F: SP		0.8060	32.9-33.8MM	12.6+0.3	0.90+0.03	11.8+0.4
DORAL 11	F; SP; M	85MM	1.0519	36.2-37.9MM	4.2+0.3	0.38+0.02	3.0+0.3
ENGLISH OVALS		85MM	1.0415	36.5-38.3MM	4.3+0.3	0.38+0.02	3.1+0.3
	R: NF: HP	70MM	0.9265	23.0MM	23.1+0.5	1.75+0.05	11.0+0.4
ENGLISH OVALS EVE LIGHTS 100	NF; HP	B5MM	1,1299	23.0MM	28.D+0.4	2.10+0.06	14.0+0.3
	F HP	. 100MM	0.8179	37.2-38.9MM	12.0+0.2	0.93+0.02	9.5+0.3
EVE LIGHTS 100	F, HP, M	100MM	0.6257	37.8-38.8MM	12.0+0.3	0.94+0.03	9.5+0.4
EVE LIGHTS 120	f, HP	120MM	0.9668	37.1-39,2MM	14,1+0,4	1.08+0.02	11.2+0.6

- 1 P-filter: NP-non-filter: M-menthol: R-regular: NP-hard pack: SP-moft pack: mm-millimeter.
- 2 Average weight reported in grams per cigarette.
- 3 Range used in butt length because of variance of overwrap.
- 4 TPM dry (tar) milligrams total particulate matter lass nicotine and water per cigarette.
- 5 Total alkaloids reported as nicotine milligrams per nigarette.
- 6 Carton Morcoxide reported as milligrams per cigarette.
- Tolerance shown is twice the standard deviation.
- Below the manufactivity of the method.
- \*\* See statement in text concerning Kool Ultra brands.

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BRAND	TYPE .	LNGTH	AVG.	BUTT	TPM	NICOTINE	CARBON
TESTED	CODE	TESTD	WEIGHT	LENGTH	DRY	CONTENT	MONOXIDE
*							
EVE LIGHTS 120	F; HP; M	120MM	0.9583	36.5~39.9MM	13.9+0.5	1.06+0.04	11.2+0.5
GALAXY	F; SP	85MM	1,0467	32.6-33.7MM	13.9+0.3	0.89+0.02	13,3+0,3
HALF & HALF	F; 5P	BSMM	1.0950	26.4-28.0MM	17,8+0.4	1.28+0.04	17.0+0.4
HERBERT TAREYTON	NF; SP	BSMM	1.1500	23.0MM	23.9+0.4	1,50+0.04	15.9+0.3
> ICEBERG 100	F; SP; M	TOOMM	0.9323	34,0-36,5MM	3,5+0,2	0.31+0.01	4,2+0,3
KENT	F: HP	BOMM	0.8883	28.0-29.3MM	12.3+0.4	0.87+0.09	11.5+0.5
KENT	f; SP	85MM	0.9316	27.7-29.4MM	11,9+0,4	0.91+0.02	10.4+0.4
KENT 100	F; SP	100MM	1.0293	33.9-36.5MM	12,9+0,4	1.01+0.02	10.7+0.6
KENT 100	F; SP; M	100MM	1.0148	34.8-36.6MM	15,3+0,3	1.25+0.03	13.5+0.4
KENT GOLDEN LIGHTS	F; SP	85MM	0.8658	34,1-36.DMM	8.7+0.3	0.75+0.03	9.0+0.4
KENT GOLDEN LIGHTS	F; SP; M	~ 85MM	0.8615	34.3-35.6MM	8.2+0.2	0.69+0.02	7.9+0.4
KENT GOLDEN LIGHTS 100	F; SP	100MM	1.0182	36.6-39.9MM	9.3+0.5	0.84+0.03	9.6+0.6
KENT GOLDEN LIGHTS 100	f; SP; M	1 0 0 MM	1.0252	37.0-39.0MM	9.1+0.4	0.79+0.03	9.2+0.4
KENT III	F; SP	95MM	0.8437	34,1-35,9MM	2.6+0.2	0.29+0.02	2.2+0.2
KENT III 100	f; SP	100MM	0.9796	37.0-39.0MM	4,1+0,2	0,42+0.01	4.8+0.3
KOOL	R;NF;SP;M	70MM	0.8395	23,0MM	20.2+0.5	1.23+0.04	14.0+0.5
KOOL	F; MP; M	80MM	0.8872	24.6-27,DMM	15.9+0.4	1.08+0.04	14.6+0.4
KOOL	F; SP; M	85MM	0.9067	28.1-30.5MM	16.3+0.3	1.04+0.03	13.8+0.3
KOOL LIGHTS	F; SP; M	85MM	0.9179	33.3-35.9MM	8.5+0.3	0.65+0.05	9.2+0.3
KOOL LIGHTS 100	F; SP; M	100MM	1.0654	34.8-37.0MM	9.0+0.3	0.70+0.03	8.7+0.4
KOOL MILDS	f; 5P; M	85MM	0.8888	31,8-34,6MM	10.2+0.4	0.73+0.04	10.7+0.4
KOOL MILDS 100	F; SP; M	100MM	1.0720	39.0-42.1MM	11.2+0.3	0.82+0.03	12.1+1.3
KOOL SUPER LONGS 100	F; SP; M	MMQOI	1.0525	34,2-35,8MM	14.1+0.3	0.88+0.03	15.3+0.4
KOOL ULTRA	F; SP; M	BSMM	0.8933	33.4-35.9MM	1.5+0.3	0.13+0.03	0.9+0.2
KOOL ULTRA 100	f: SP; M	100MM	1.0771	39.7-41,2MM	4.1+0.3	0.38+0,03	2.7+0.4
L 8 M	Fi HP	BOMM	0.6388	28.5-30.1MM	13.4+0.3	0.92+0.03	12.8+0.4
L & M .	F; SP	ВБММ	0.8884	32,0-34,1MM	13.1+0.4	0.91+0.03	12.5+0.5
L & M 100 L & M LIGHTS	F: SP	100MM	0.9783	35.9-39.6MM	13.6+0.4	0.98+0.03	13.0+0.4
L & M LIGHTS 100	F; SP	BSMM	0.8507	32.8-34.0MM	8.0+0.3	0.74+0.03	6.8+0.4
LARK	f; SP	1 DOMM	0.9530	36.4-39.7MM	8.5+0.3	0.83+0.02	6.1+0.4
LARK 100	f: SP	85MM	0.9563	32.4-34.6MM	13.9+0.3	0.92+0.02	13.2+0.5
	, F; SP	100MM	1.1186	37.0-39.0MM	14.9+0.3	0.99+0.03	14.6+0.5
LARK LIGHTS LARK LIGHTS 100	F; SP	85MM	0.9708	33.0-35.8MM	12.8+0.3	0.89+0.03	12.1+0.3
LUCKY STRIKE	F; SP	100MM	1.1122	36,8-40,DMM	13.3+0.3	0.97+0.02	13,2+0,3
LUCKY STRIKE	R; MF; SP	7 DMM	0.8857	23,0MM	23.3+0.6	1.37+0.04	16.4+0.5
LUCKY STRIKE	F; HP	BOMM	0.9395	31.8-35.9MM	10.5+0.4	0.77+0.03	10.3+0.4
LUCKY STRIKE 100	F; SP	85MM	0.9231	33.0-35.0MM	10.5+0.3	0.80+0.03	9.9+0.4
MARLBORO	F; SP	100MM	1.1325	34.5-36.1MM	10.9+0.3	0.86+0.02	10,2+0.4
MARLBORO	F; HP	8DMM	0.9311	26.3-28.0MM		0.97+0.02	14.0+0.4
MARLBORO	F; SP	85MM	0.9810	37.9~40.0MM	16.0+0.4	1.00+0.03	14.5+0.5
MARLBORO 100	F; SP; M	85MM	8.9807	28.9~30.7MM	15.6+0.4	0.96+0.03	14.1+0.3
MARLBORO 100	F; HP	100MM	1.1183	35.0-36.8MM	16.0+0.3	1.05+0.02	14,4+0,4
MARLBORO LIGHTS	F; SP	100MM	1.1325	35.0-36.0MM	16.3+0.4	1.05+0.04	15.0+0.5
MARLBORD LIGHTS	F; Η₽	85MM	0.9542	34.2-36.0MM	10.1+0.3	0.69+0.02	10.8+0.3
MARLBORD LIGHTS 100	f; SP f; SP	85MM	0.9433	33.9-35.7MM	10.2+0.2	0.68+0.02	10.8+0.4
	г; эм	100MM	1.1001	39,1~41.0%M	10.1+0.3	0.71+0.02	11,1+0.3

<sup>1</sup> F-filter: NF-non-filter: N-menthol; N-regular: NP-hard pack; SP-soft pack; NN-millimeter. 2 Average weight reported in grame per cigarette.

Range used in butt length because of variance of overwrap.

<sup>4</sup> TM dry (tar) - milligrams total particulate matter less nicotine and water per cigarette.

<sup>5</sup> fotal alkaloids reported as nicotine milligrams per digarette.

<sup>6</sup> Carbon Monoxide reported as milligrams per cigarette.

Tolerance shown is twice the standard deviation.

Below the sensitivity of the method.

<sup>\*\*</sup> See Statement in text concerning Kool Ultra brands.

#### TAR NICOTINE AND CARBON MONOXIDE CONTENT OF TWO HUNDRED SEVEN VARIETIES OF DOMESTIC CIGARETTES

BRAND	TYPE	LNGTH	AVG.	BUTT	TPM	MICOTINE	CARBON MONOXIDE
TESTED'	CODE	TESTO	WEIGHT	LENGTH	DRY	CONTENT	MONOVIDE
MAX 120	F; SP	120MM	1.0100	36.8-38.4MM	18.2+0.3	1,40+0,04	17,2+0.6
MAX 120 .	F; SP; M	120MM	0.9951	38.0-40.1MM	18.7+0.3	1,44+0.03	17.1+0.6
MERIT	Fi SP	85MM	0.9769	36,1-37.6MM	7.6+0.3	0.52+0.02	9,1+0.5
MERIT	F, SP, M	85MM	0.9917	35.8-38.5MM	7.9+0.3	0.54+0.02	9.5+0.5
MERIT 100	F: SP	100MM	1.1195	37.0-41.3MM	10.3+0.3	0.71+0.02	11.6+0.5
MERIT 100	F. SP. M	100MM	1,1111	39,8-41.9MM	9.4+D.4	0.67+0.02	10.6+0.5
MERIT ULTRA LIGHTS .	F; SP	85MM	0.8956	35.0-38.8MM	4.9+0.4	0.35+0.03	6.3+0.5
MERIT ULTRA LIGHTS	Fi SP: M	85MM	0.9126	34,2-35.8MM	4.7+0.5	0.37+0.02	6.0+0.7
MERIT ULTRA LIGHTS 100	F; SP	100MM	1.0434	38,5-40,1MM	5.1+0.3	0.43+0.01	6,4+0.5
MERIT ULTRA LIGHTS 100	Fi SPi M	* 100MM	1.0513	3B.1-40.2MM	4.1+0.2	0.35+0.02	4,4+0,3
MONTCLAIR	F: SP: M	85MM	0.9023	25.9-28.2MM	14.7+0.4	0,98+0.03	15,2+0,5
MORE 120	F: SP	120MM	1,0297	43,0~44.1MM	16.5+0.4	1,19+0.03	20.4+0.4
MORE 120	F; SP; M	120MM	1.0375	41.0-42.2MM	16.0+0.3	1.21+0.02	18.8+0.4
MORE LIGHTS 100	₽. HP	100MM	0.9140	37.0-38.7MM	8.0+0.4	0,65+0.02	7.7+0.5
MORE LIGHTS 100 .	F. HP. M	100MM	0.8550	36.0-40.1MM	7.6+0.3	0.81+0.02	8.4+0.4
MULTIFILTER	F. SP	85MM	1,1379	31.0-33.9MM	12.1+0.4	0.77+0.02	10.5+0.4
MULTIFILTER	F. SP. M	BSMN	1.1405	32.2-33.9MM	12.2+0.3	0,76+0.02	10.2+0.3
NEWPORT	F. HP. M	BOMM	0.8776	32.0-34.1MM	15.5+0.4	1,14+0.03	15.4+0.4
MEWPORT	Fi SPi M	85MM	0.9247	26.9-30.0MM	16.8+0.4	1,21+0.04	17,2+0.5
NEWPORT 100	F. SP. M	1DOMM	1.0489	34.1-36.2MM	19.5+0.5	1.46+0.04	19.6+0.5
NEWPORT LIGHTS	F, HP, M	BOMM	0.8314	27.8-29.2MM	8.9+0.2	0.72+0.04	9.3+0.4
NEWPORT LIGHTS	f. SP. M	85MM	0.8914	33.2-36.6MM	8,1+0.4	0.70+0.03	8.3+0.5
NEWPORT LIGHTS 100	f: SP: M	100MM	1.0342	36.7-39.1MM	9.5+0.4	0.83+0.03	9.6+0.6
NEWPORT RED	F. HP	BOMM	0.8834	32.3-34.1MM	12.1+0.5	0.94+0.03	12.5+0.3
NEWPORT RED	F: SP	85MM	0.9228	32.1-33.8MM	13,7+0.3	1.04+0.03	15.1+0.4
NOW	F, HP	BOMM	0.6918	33.2-35.7MM	* .	*	*
NOW 1	Fi SP	85MM	0.7984	33.4-38.1MM	1.2+0.1	0,11+0.01	1,5+0.2
NOW	F; SP; M	85MM	0.7986	33.9-38.1MM	1.0+0.2	0.09+0.02	1.2+0.2
NOW 100	F1 HP	100MM	0.6658	37.9-38.7MM	*	0.07+0.09	*
NOW 100	F: SP	100MM	0,9543	37.8-38.6MM	2.6+0.2	0.27+0.02	2.4+0.3
MOW 100	F. SD. M	100MM	0.9451	36.8-38.7MM	2.0+0.2	0.24+0.02	1.5+0.2
OLD GOLD FILTER	F: SP	85MM	0.9293	26.8-30,4MM	17.2+0.4	1.25+0.04	18.0+0.5
OLD GOLD FILTER 100	F: SP F: SP	TOOMM	1.0573	31,4-39.0MM	20,2+0.4	1.52+0.05	19.8+0.4
OLD GOLD LIGHTS	F: SP	85MM	0.9049	35.1-36.0MM	9.3+0.4	0,82+0.03	10.0+0.4
OLD GOLD STRAIGHT	NF: SP	85MM	0.9924	23.0MM	25.8+0.4	1,63+0.04	16,6+0.4
PALL MALL	NF: SP	65MM	1.0564	23.DMM	23.1+0.6	1.34+0.04	15,5+0.5
PALL MALL	F: SP	85MM	0.9914	25.5-29.2MM	16.7+0.3	1,11+0.03	18.0+0.5
PALL MALL 100	Ft SP	100MM	1.1238	34,2-35,1MM	15.4+0.4	1,09+0.03	15.2+0.5
PALL MALL EXTRA LIGHT	F; SP	85MM	0.9793	31,6-35.0MM	7.0+0.4	0,59+0.02	6.7+0.4
PALL MALL LIGHT 100	F: SP	100MM	1,0946	37,5-39.0MM	9.5+0.4	0.75+0.03	8.9+0.4
PALL MALL LIGHT 100	F; SP: M	100MM	1.0150	34,4-35,2MM	12.4+0.3	0.97+0.03	11.4+0.4
PARLIAMENT LIGHTS	F: HP	BOMM	0,9659	32,9-34,0MM	8.6+0.2	0.61+0.02	9.2+0.4
PARLIAMENT LIGHTS	F; SP	85MM	1.6092	33.1-34.6MM	8.7+D.3	0.63+0.02	8.5+0.3
PARLIAMENT LIGHTS 100	F; SP	100MM	1,2415	38.6-40.0MM	11.6+0.3	0.83+0.02	10.7+0.4
PHILIP MORRIS	R; NF; SP	7 OMM	0.8474	23.0MM	20.8+0.5	1.24+0.03	11,9+0.4
PHILIP MORRIS COMMANDER	NF; SP	B5MM	1,0481	23.0MM	25.7+0.5	1.59+0.04	14.3+0.4
EINTER MODULT A AAMMUIDED	• =-						

<sup>1</sup> P-filter: NP-non-filter: M-menthol: R-regular: HP-hard pack: SP-moft pack: mm-millimeter.

<sup>2</sup> Average weight reported in grams per cigaretto.

<sup>3</sup> Range used in butt length because of variance of overwrap.

TEM dry (tar) - milligrams total particulate matter less nicotine and water per digarette.

<sup>5</sup> Total alkaluids reported as nicotine milligrams per cigarette.

Carton Monoxide reported as milligrams per cigarette.

Tolerance shown is twice the standard deviation,

Below the mensitivity of the method.

<sup>\*\*</sup> See statement in test conserning Keel Ultra brands.

#### TAR HICOTINE AND CARBON MONOXIDE CONTENT OF TWO HUNDRED SEVEN VARIETIES OF DOMESTIC CIGARETTES

BRAND . Tested	TYPE	LNGTH	AVG.	BUTT	TPM	NICOTINE	CARBON
	CODE	TESTD	WEIGHT	LENGTH	DRY	CONTENT	MONOXIDE
	*						
PHILIP MORRIS INTERNATIONAL 100	F: HP	100MM	1.1110	34.6-35.7MM	16.8+0.2	1.07+0.02	15.6+0.4
PHILIP MORRIS INTERNATIONAL ION	E. WD. M	100MM	1.1430	34.8-35.2MM	16.7+0.5	1.07+0.03	16.4+0.4
PI CAYUNE	R; NF; SP	70MM	0.8577	23.0MM	15.9+0.5	1.00+0.03	12,5+0.7
PLAYERS	R; NF; HP	70MM	1,0707	23.0MM	25.4+0.5	1.90+0.04	
PLAYERS	F: HP	85MM	0.9611	34.2-36,1MM	11,7+0.4	0.80+0.02	14.7+0.4
PLAYERS	F; HP; M	85MM	0.9444	34.0-36,8MM	11.6+0.3	0.79+0.02	11.1+0.3
PLAYERS 100	F: HP	100MM	1.0269	36.8-40.5MM	13.1+0.4	0.89+0.02	10.5+0.4
PLAYERS 100	F: MP: M	100MM	1.0404	36,0-39,9MM	12.9+0.3	0.83+0.02	12.0+0.5
RALEIGH.	NF: SP	BSMM	1.0767	23.0MM	24.6+0.7	1.38+0.05	11.4+0.3
RALEIGH'	F: SP	85MM	0,9449	28.4-29.9MM	14.9+0.3	0.89+0.03	16.5+0.6
RALEIGH 100	F: SP	JOOMM	1.1306	34,2-36,4MM	16.0+0.4		16.1+0.5
RALEIGH LIGHTS	F: SP	85MM	0.9297	32.0-33.8MM	10.4+0.2	1.04+0.03	18.5+0.4
PICAYUNE PLAYERS PLAYERS PLAYERS PLAYERS PLAYERS 100 PLAYERS 100 RALEIGH RALEIGH 100 RALEIGH 1100 RALEIGH LIGHTS RALEIGH LIGHTS RALEIGH LIGHTS RALEIGH LIGHTS	F: SP	100MM	1.1408	38,2-40,1MM	8.9+0.4	0.76+0.02 0.69+0.02	10.1+0.4
RICHLAND	F: SP	85MM	0,9246	28.3-29.8MM	15.9+0.3		9.4+0.5
RICHLAND	F: SP: M	85MM	0.9129	28,6-29,5MM	15.3+0.4	1.05+0.03	13.2+0.4
SALEM	F: SP: M	85MM	0.9486	27,2-29.5MM	16.0+0.3	0.98+0.03	13.4+0.4
SALEM 100	F: SP: M	100MM	1.1247	33.5-35.4MM	16.0+0.4	1.06+0.03	17.6+0.4
SALEM LIGHTS	F SP M	85MM	0.9384	34.2-35,1MM	9.1+0.3	1,21+0,04	14.9+0.6
RICHLAND RICHLAND SALEM SALEM 100 SALEM LIGHTS SALEM LIGHTS 100 SALEM LIGHTS 100 SALEM DIGHTS 100 SALEM DITA	F: SP: M	100mm	1.1248	36.5-38.3MM	9,2+0.3	0.70+0.02	10,7+0,4
SALEM SLIM LIGHTS 100	F: HP: M	100MM	0.8823	37.6-39.0MM	8.1+0.3	0.74+0.03	10.8+0.3
SALEM ULTRA	F: 5P: M	85MM	0.9064	33,0-34,3MM	5.0+0.3	0.66+0.02	8.7+0.4
SALEM ULTRA 100	F 50 M	100MM	1.1110	36.2-38.8MM		0.43+0.02	6,4+0.4
SALEM ULTRA 100 SARATOGA 120 SARATOGA-120 SARATOGA-120 SATIN 100 SATIN 100 SILVA THINS 100 SPRING 100	F HP	120MM	1,0915	37.1~39.2MM	4.7+0.3	0.42+0.02	5.9+0.4
SARATOGA-120 .	F. HP. M	120MM	1,1067		13.6+0.4	0.94+0.03	13.2+0.6
SATIN 100	F . SP	100MM	1,0584	37.2-38.9MM	14.0+0.3	0.93+0.02	13.5+0.6
SATIN 100	F. SP. M	100MM	1,0530	35.0-36.5MM	9.9+0.4	0.85+0.03	10.5+0.5
SILVA THINS 18G	F. SD	100MM	0.9411	35.1-37.1MM	9.4+0.3	0.82+0.03	10.0+0.4
STLVA THINS 100	F. SD. M	LOOMM	0.9418	34.5-37.3MM 34.2-36,7MM	10.9+0.5	0.88-0.04	8.5+0.4
SPRING 100	F: SP: M	1 00MM	1.0843	34,1-36,9MM	10.7+0.3	0.89+0.03	8.3+0.4
** · · · · · · · · · · · · · · · · · ·	F; SP	LOOMM	1.0518	35.7-38.3MM	18,9+0.3	1.05+0.04	16.3+0.5
ST. MORITZ 100	F. CD. M	LOOMM	1.0550		13.7+0.3	1.05+0.03	12.8+0.5
TALL 120	F. SD	120MM	1,1852	35.3-38.0MM	14.3+0.3	1.07+0.04	13,4+0,4
ST. MORITZ 100 TALL 120 TALL 120 TAREYTON TAREYTON 100 TAREYTON LIGHTS	F. SD. M	120MM		36,6-39.0MM	19.8+0.5	1,49+0.03	19.3+0.8
TAREYTON	F. SD	85MM	1.1858	37.0-39.9MM	16.7+0.8	1.29+0.07	17.5+1.1
TAREYTON 100	F. 50	100MM	1.0099	25.9-28.7MM	13.1+0.3	0.86+0.03	13.8+0.4
TAREVION LIGHTS	6. 50		1,1665	33.8-36,2MN	13.5+0.2	0.93+0.03	15.1+0.3
TAREYTON LIGHTS TAREYTON LONG LIGHTS 100	F. 50	85MM	0.8764	33.3-37.1MM	4.4+0.2	0.36+0.01	4.2+0.2
TALUMPH	F; SP	100MM	1.1426	33.9-36.3MM	7.5+0.3	0.62+0.04	7.0+0.4
	f: SP: M	85MM	0.8279	34.1-36.0MM	2.9+0.3	0.30+0.02	2,5+0,3
		85MM	0.8247	34.1-35.8MM	2.7+0.2	0.30+0.02	2,4+0,3
	F; SP	100MM	0.9700	37.0-39.3MM	4.0+0.2	0.41+0.02	4.540,3
	f; SP; M	100MM	0.9682	36.8.39.1MM	3.8+0.4	0.39+0.02	4.2+0.5
	f; SP	85MM	0.8218	31.8-33.8MM	4.6+0.2	0.41+0.02	4.4+0.3
TRUE 100	F; SP; M	85MM	0.8206	31.9-34.2MM	5.0+0.3	0.42+0.02	4.8+0.3
· ·	f; SP	100MM	0.9851	33.8-36.0MM	7.8+0.3	0.62+0.03	8.5+0.4
TOUR IND							
TRUE 100 Vantage,	F; SP; M F: SP	100MM 85MM	0.9757 1.0460	34,2-36,1MM 32,0-34,2MM	7.4+0.3 9.7+0.2	0.58+0.02	7.8+0.4

- 1 P-filter; NP-non-filter; M-menthal; R-regular; NP-hard pack; SP-soft pack; mm-millimeter.
- 2 Average whight reported in grame per digarette.
- 3 Range used in butt length because of variance of overwrap.
- The dry (tar) milligrams total particulate matter less nicotine and water per cigarette. 5 Total alkaloids reported as nicotine milligrams per cigaretts.
- 6 Carbon Monoxide reported as milligrams por digarette.
- :+ Tolerance shown is twice the standard deviation.
- helow the sensitivity of the method.
- \*\* See statement in taxt concerning Kool Ultra brands.

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# TAR NICOTINE AND CARBON MONOXIDE CONTENT \_OF TWO HUNDRED SEVEN VARIETIES OF DOMESTIC CIGARETTES

BRAND	TYPE	LNGTH	AVG.	BUTT	TPM	NICÒTINE	CARBON
TESTED	CODE	TESTD	WEIGHT	LENGTH	DRY	CONTENT	MONOXIDE
VANTAGE	F; SP; M	85MM	1,0723	32.5-34.0MM	9.2+0.4	0.67+0.03	11.9+0.5
VANTAGE 100	F; SP	100MM	1,2160	34,6-38.2MM	9.4+0.3	0.71+0.03	10.5+0.6
VANTAGE 100	F; SP; M	100MM	1.2412	36.9-39.8MM	9.3+0.3	0.72+0.02	10.6+0.4
VANTAGE ULTRA LIGHTS	F <sub>1</sub> SP	85MM	0.8910	32,2-34.6MM	4.7+0.2	0.43+0.02	5.9+0.2
VANTAGE ULTRA LIGHTS	F; 5P; M	85MM	0.8712	32,7-34.9HM	4.6+0.2	0.40+0.01	5.8+0.3
VANTAGE ULTRA LIGHTS 100	F: 5P	100MM	1.0656	36.1-38.2MM	5.0+0.2	0.45+0.02	5.7+0.4
VANTAGE ULTRA LIGHTS 100	F; SP; M	1:00MM	1.0236	35.4-39.2MM	5.1+0.2	0.44+0.03	6.8+0.4
V1CEROY	F; SP	85MM	0,9059	28.3-30.1MM	16.2+0.3	0.94+0.03	15.7+0.5
VICEROY RICH LIGHTS	F; SP	85MM	0.9179	32.1-34.3MM	9.9+0.3	0.74+0.02	9.6+0.3
VICERDY RICH LIGHTS 100	F; SP	100MM	1.0851	39.0-41.1MM	10.5+0.4	0.78+0.02	11.3+0.4
1 VICERDY SUPER LONG 100	F; SP >	1 DOMM	1,0776	33.6-36.5MM	14.3+0.3	0.94+0.03	16.1+0.4
VIRGINIA SLIMS 100	F: SP	1 O O MM	0.9500	34.5-36.3MM	14.3+0.4	0.93+0.02	12,3+0.4
VIRGINIA SLIMS 100	F; SP; M	100MM	0.9428	33.2-36.3MM	14.5+0.3	0.94+0.03	12.9+0.4
VIRGINIA SLIMS LIGHTS 100	F: HP	100MM	0.9672	39.0-48.4MM	7.7+0.4	0.57+0.03	7,4+0.4
VIRGINIA SLIMS LIGHTS 100	F; HP; M	100MM	0.9677	38,7-39.7MM	7.8+0.4	0.56+0.02	7.5+0.4
WINSTON	F; HP	BOMM	0.9222	25.1-27.3MM	15,1+0,4	1.07+0.04	14.5+0.4
wINSTON .	F: SP	85MM	0.9979	26.9-29.5MM	15.8+0.4	1.06+0.03	14.7+0.3
WINSTON 100	F; SP	100MM	1,1219	34.1-35.1MM	16.5+0.4	1.20+0.04	15.8+0.4
WINSTON INTERNATIONAL 100	F: HP	100MM	1.0528	34.2-35.6MM	15.5+0.4	1.10+0.03	13.5+0.4
WINSTON LIGHTS	F; SP	85MM	0.9448	32.8-34.9NM	8.4+0.3	0.65+0.02	9.3+0.3
WINSTON LIGHTS 100	F: SP	100MM	1.1306	36.0-38.9MM	11.5+0.3	0.83+0.02	13.1+0.5
WINSTON ULTRA LIGHTS	F; SP	85MM	0.8818	33,4-35,6MM	4.8+0.2	0.42+0.01	6.5+0.3
WINSTON ULTRA LIGHTS 100	F; SP	TOOMM	1.0857	36.0-38.8MM	5.3+0.3	0.45+0.82	5.6+0.5

<sup>1</sup> P-filter: N-mon-filter: M-monthol: R-regular: HP-hard pack: SP-moft pack: mm-millimeter.
2 Awarage weight reported in grams per cigarette.

<sup>3</sup> Range used in butt length because of variance of overwrap.

<sup>4</sup> TPM dry (tar) - milligrams total particulate matter less nicotine and water per cigarette.
5 Total alkaloids reported as nicotine milligrams per cigarette.

<sup>6</sup> Carton Morracide reported as milligrams por cigarette.

<sup>+</sup> Tolerance shown is twice the standard deviation,

<sup>\*</sup> Below the sensitivity of the mutical.

es Son statement in text concerning Kool Ultra brands.

ITeras	sting Order of Tar)		~ .	•
BRAND	TYPE		麗	₹ 🛎
NAME	1 IPE	·	Ę'	<b>8</b> 8
474 to 1840		TAR 1	MI COTT ME	CARBON
CAMBRIDGE	KING SIZE; FILTER; (HARD PACK) KING SIZE; FILTER; (HARD PACK) 100MM; FILTER; MENTHOL; (HARD PACK) KING SIZE; FILTER; (HARD PACK) 100MM; FILTER; (HARD PACK) REG SIZE; FILTER; (HARD PACK) KING SIZE; FILTER KING SIZE; FILTER KING SIZE; FILTER; MENTHOL 100MM; FILTER; (HARD PACK) KING SIZE; FILTER KING SIZE; FILTER KING SIZE; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL KING SIZE; FILTER MENTHOL 100MM; FILTER; MENTHOL 100MM; FILTER; MENTHOL 100MM; FILTER; MENTHOL 100MM; FILTER; MENTHOL 100MM; FILTER 100MM; FILTER; MENTHOL 100MM; FILTER; MENTHOL; (HARD PACK) 100MM; FILTER; MENTHOL; (HARD PACK) 100MM; FILTER	*	*	
CARLTON	KING SIZE: FILTER: (HARD DACK)	*	*	4
CARLTON 100	100MM FILTER MENTUCE (UND DACK)	*	*	<u> </u>
NOW	KING SIZE: PILTED. (UND DACK)	4	4	<u>.</u>
NOW 100	100MM: FILTER: (HARD PACK)	*	0 1	÷
BENSON & HEDGES	REG SIZE: FILTER: (HADD DACK)	•	0.1	<u> </u>
CAMBRIDGE	KING SIZE: FILTER	1	0.1	2
CARLTON	KING SIZE: FILTER	1	0.1	7
CARLTON	KING SIZE: FILTER MENTHOL	1	0.1	
CARLTON 100	100MM · FILTER · (HARD DACK)	7	0.1	<u>.</u>
WOM	KING SIZE: FILTER	1	0.1	ŝ
NOW	KING SIZE: FILTER: MENTHO!	ì	0.1	2
KOOL ULTRA**	KING SIZE: FILTER: MENTHOL	2	0.1	1
NOW 100	100MM: FILTER: MENTHOL	2	0.1	<u>.</u>
KENT III	KING SIZE: FILTER	2	0.2	
NOW 100	100MM: FILTER	3	0.3	. 2
TRIUMPH	KING SIZE: FILTER	3	0.3	2
TRIUMPH	KING SIZE: FILTER: MENTHOL	3	0.3	3
DORAL II	KING SIZE: FILTER	A	0.3	2
DORAL II	KING SIZE: FILTER: MENTHOL	4	0.4	J
ICEBERG 100	100MM FILTER MENTHOL	7E	0.4	3
KENT III 100	100MM· FILTER	4	0.3	%± ⊑
KOOL ULTRA 100 **	100MM· FILTER· MENTHOL	4	0.4	2
MERIT ULTRA LIGHTS 100	100MM· FILTER· MENTHOL	*	0.4	3
TAREYTON LIGHTS	KING SIZE. FILTED	* A	0.4	4
TRIUMPH 100	100MM· FILTER	4	0.4	<b>4</b>
TRIUMPH 100	100MM· FILTER: MENTHO!	A	0.4	3
BENSON & HEDGES ULTRA LIGHT	100MM: FILTER: (HADD DACK)	~	O . 4	·*
BENSON & HEDGES HLTRA LIGHT	100MM FILTER MENTHOL (HADD DACK)	5 5	0.4	E
CAMBRIDGE 100	100MM; FILTER; MENTHOL; (HARD PACK) 100MM; FILTER 100MM; FILTER 100MM; FILTER; MENTHOL KING SIZE; FILTER KING SIZE; FILTER; MENTHOL 100MM; FILTER	5	0.12	3 E
CARLTON 100	100MM· FILTER	5	0.4	2
CARLTON 100	100MM FILTER MENTHOL	5	D 4	6
MERIT ULTRA LIGHTS	KING SIZE: FILTER	5	0.4	6
MERIT ULTRA LIGHTS	KING SIZE: FILTER: MENTHOL	5	n a	5
MERIT ULTRA LIGHTS 100	100MM: FILTER	5	n a	6
SALEM ULTRA	KING SIZE; FILTER; MENTHOL	5	0.4	2
SALEM ULTRA 100	100MM; FILTER; MENTHOL	5 1	0.4	6
TRUE	KING SIZE; FILTER		0.4	
TRUE	KING SIZE; FILTER; MENTHOL		0.4	4 5
VANTAGE ULTRA LIGHTS	KING SIZE; FILTER		0.4	6
VANTAGE ULTRA LIGHTS	KING SIZE; FILTER; MENTHOL		0.4	6
VANTAGE ULTRA LIGHTS 100	100MM; FILTER		0.5	6
VANTAGE ULTRA LIGHTS 100 ,	100MM; FILTER; MENTHOL		0.4	7
· · · · · · · · · · · · · · · · · · ·		J 1		,

<sup>&</sup>quot;Tar" - milligrams total particulate setter less micotine and water per digaretts. Ricotine total alkaloids reported in milligrams per digaretts. Carton Monoxide reported in milligrams per digaretts. Indicates "tar" below 0.5 mg.; micotine below 0.05 mg. or carbon monoxide helow 0.5 mg. per digaretts.

	easing Order of Tax)	•	***	<b>•</b> •••
		٠ ـ	Ĕ.	8 2
BRAND	TYPE	<b>SX</b> :	<b>5</b>	25
		₹.	25	่อ์ฐั
WINSTON ULTRA LIGHTS WINSTON ULTRA LIGHTS 100 BRIGHT BRIGHT 100 CARLTON 120 CARLTON 120 PALL MALL EXTRA LIGHT TAREYTON LONG LIGHTS 100 TRUE 100 BELAIR 100	KING SIZE; FILTER 100MM; FILTER KING SIZE; FILTER; MENTHOL 100MM; FILTER; MENTHOL 120MM; FILTER 120MM; FILTER; MENTHOL KING SIZE; FILTER 100MM; FILTER 100MM; FILTER; MENTHOL 100MM; FILTER; MENTHOL	3YL 5566777778	0.4 0.5 0.5	#082YO 6777557787
CAMEL LIGHTS KENT GOLDEN LIGHTS KOOL LIGHTS L & M LIGHTS L & M LIGHTS 100 MERIT MERIT MORE LIGHTS 100 MORE LIGHTS 100	120MM; FILTER; MENTHOL KING SIZE; FILTER 100MM; FILTER; MENTHOL 100MM; FILTER; MENTHOL 100MM; FILTER; MENTHOL KING SIZE; FILTER KING SIZE; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL KING SIZE; FILTER 100MM; FILTER KING SIZE; FILTER KING SIZE; FILTER KING SIZE; FILTER KING SIZE; FILTER; MENTHOL 100MM; FILTER; (HARD PACK) 100MM; FILTER; MENTHOL; (HARD PACK) KING SIZE; FILTER; MENTHOL 100MM; FILTER; MENTHOL; (HARD PACK) 100MM; FILTER; MENTHOL; (HARD PACK) 100MM; FILTER; MENTHOL; (HARD PACK)	888888888	0.7 0.7 0.7 0.8 0.5 0.6 0.6	10 8 9 7 6 9 10 8
NEWPORT LIGHTS SALEM SLIM LIGHTS 100 TRUE 100 VIRGINIA SLIMS LIGHTS 100 VIRGINIA SLIMS LIGHTS 100 WINSTON LIGHTS CAMEL LIGHTS CENTURY LIGHTS KENT GOLDEN LIGHTS KENT GOLDEN LIGHTS 100 KENT GOLDEN LIGHTS 100 KOOL LIGHTS 100	KING SIZE; FILTER; MENTHOL  100MM; FILTER; MENTHOL; (HARD PACK)  100MM; FILTER; (HARD PACK)  100MM; FILTER; (HARD PACK)  KING SIZE; FILTER  KING SIZE; FILTER; (HARD PACK)  KING SIZE; FILTER  KING SIZE; FILTER  100MM; FILTER  100MM; FILTER; MENTHOL  100MM; FILTER; MENTHOL  100MM; FILTER; MENTHOL  KING SIZE; FIL; MENTHOL; (HARD PACK)  KING SIZE; FILTER  100MM; FILTER; MENTHOL; (HARD PACK)  KING SIZE; FILTER  KING SIZE; FILTER; (HARD PACK)	88888999999	0.7 0.6 0.6 0.6 0.7 0.7 0.7 0.8 0.8 0.8	8 9 8 7 8 9 8 11 9
MERIT 100 NEWPORT LIGHTS OLD GOLD LIGHTS PALL MALL LIGHT 100 PARLIAMENT LIGHTS PARLIAMENT LIGHTS RALEIGH LIGHTS 100 SALEM LIGHTS 100 SATIN 100 VANTAGE VANTAGE 100	100MM; FILTER; MENTHOL KING SIZE; FIL; MENTHOL; (HARD PACK) KING SIZE; FILTER 100MM; FILTER KING SIZE; FILTER; (HARD PACK) KING SIZE; FILTER 100MM; FILTER KING SIZE; FILTER; MENTHOL 100MM; FILTER; MENTHOL 100MM; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL 100MM; FILTER; MENTHOL 100MM; FILTER	9999	0.7 0.8 0.7 0.6 0.6 0.7 0.7 0.7 0.7	9 11 11 10 12

<sup>1 &</sup>quot;Dar" - milligrams total particulate metter less micotine and water per cigarette.
2 Nicotine total alkaloids reported in milligrams per cigarette.
3 Carton Manoside reported in milligrams per cigaretts.
4 Indicates "tar" below 0.5 mg.; micotine below 0.05 mg. or carbon monoside below 0.5 mg. per cigarette.
50 See statement in text concerning Ecol Ultra brands.

	TAR	NI	COI	INE	AND	CO	CONTENT	OF	TWO	HUNI	DRED	SEVEN
1	BRANI	วร	OF	DOME	ESTIC	C (C)	GARETTE:	S TI	ESTED	BY	FTC	METHOD
	(Increasing Order of Tar)											

	axing Order of Tarl		<b>84</b>	<b>₽</b> Դ,
BRAND	TYPE		1	CARBON HOWOXIDE
NAME	11FE		5	₽ğ.
NAME	100MM; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL 100MM; FILTER 100MM; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL KING SIZE; FILTER KING SIZE; FILTER KING SIZE; FILTER 100MM; FILTER 100MM; FILTER 100MM; FILTER 100MM; FILTER KING SIZE; FILTER KING SIZE; FILTER KING SIZE; FILTER KING SIZE; FILTER 100MM; FILTER 100MM; FILTER 100MM; FILTER; MENTHOL KING SIZE; FILTER; (HARD PACK) 100MM; FILTER KING SIZE; FILTER; (HARD PACK) KING SIZE; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL KING SIZE; FILTER; (HARD PACK) 100MM; FILTER KING SIZE; FILTER; (HARD PACK) 100MM; FILTER; MENTHOL	TAR 1	Ĕ	១ទ្ទ
WANDACE #00	100MM PILTED MENTUOI	G	0.7	11
ANINGE TOO	KING CIPE, DILMOD, MENDUAT	10	0.7	
DELAIR	100m, pimer	10	0.7	11
BENZON & NEDGES FIGURE 100	100MM; FILIER	10	0.7	7.7
RENSON & REDGES FIGURE IN	TOUMM; FILTEK; MENTHOL	10	0.7	10
KOOL MILDS	KING SIZE; FILTER; MENTHOL	TO	0.7	11
LUCKY STRIKE	KING SIZE; FILTER	10	0.8	10
MARLBORO LIGHTS	KING SIZE; FILTER; (HARD PACK)	10	0.7	11
MARLBORO LIGHTS	KING SIZE; FILTER	10	0.7	11
MARLBORO LIGHTS 100	100MM; FILTER	10	0.7	11
MERIT 100	100MM; FILTER	10	0.7	12
NEWPORT LIGHTS 100	100MM; FILTER; MENTHOL	10	0.8	10
RALEIGH LIGHTS	KING SIZE; FILTER	10	0.8	10
SATIN 100	100MM; FILTER	10	0.9	11
VANTAGE	KING SIZE; FILTER .	10	0.7	12
VICEROY RICH LIGHTS	KING SIZE; FILTER	10	0.7	10
CAMEL LIGHTS 100	100MM; FILTER	11	0.8	14
KOOL MILDS 100	100MM; FILTER; MENTHOL	11	0.8	12
LUCKY STRIKE	KING SIZE; FILTER; (HARD PACK)	11	0.8	10
LUCKY STRIKE 100	100MM; FILTER	11	0.9	10
SILVA THINS 100	100MM; FILTER	11	0.9	9
SILVA THINS 100	100MM; FILTER; MENTHOL	11	0.9	8
VICEROY RICH LIGHTS 100	100MM; FILTER	11	0.8	11
WINSTON LIGHTS 100	100MM: FILTER	11.	0.8	13
EVE LIGHTS 100	100MM; FILTER	12	0.9	9
EVE LIGHTS 100	100mm; FILTER; MENTHOL	12	0.9	9
KENT	KING SIZE: FILTER: (HARD PACK)	12	0.9	11
KENT	KING SIZE	12	0.9	10
MULTIFILTER	KING SIZE: FILTER	12	0.8	10
MULTIFILTER	KING SIZE: FILTER; MENTHOL	12	0.8	10
NEWPORT RED	KING SIZE: FILTER: (HARD PACK)	12	0.9	13
PALL MALL LIGHT 100	100MM: FILTER: MENTHOL	12	1.0	11
PARLIAMENT LIGHTS 100	100MM: FILTER	12	0.8	11
PLAYERS	KING SIZE: FILTER: (HARD PACK)	12	0.8	11
PLAYERS	100MM; FILTER; MENTHOL 100MM; FILTER KING SIZE; FILTER; (HARD PACK) KING SIZE; FILTER; MENTHOL KING SIZE; FILTER 100MM; FILTER	12	0.8	11
DORADO	KING SIZE: FILTER	13	0.9	12
KENT 100	100MM; FILTER	13	1.0	11
L & M	KING SIZE; FILTER; (HARD PACK)		0.9	
L&M	KING SIZE; FILTER		0.9	
LARK LIGHTS	KING SIZE; FILTER		0.9	
LARK LIGHTS 100	100MM; FILTER		1.0	
PLAYERS 100	100MM; FILTER; (HARD PACK)		0.9	
PLAYERS 100 PLAYERS 100	100MM; FILTER; MENTHOL; (HARD PACK)			
TAREYTON	KING SIZE; FILTER	13	0.9	14
IANGIION	KING DIDD) FIREDIC	- *		

<sup>1 &</sup>quot;Ter" - milligrams total particulate matter less nicotine and water per digarette.
2 Micotine total alkaloids reported in milligrams per digarette.
3 Carbon Monoxide reported in milligrams per digarette.
4 Indicates "tar" below 0.5 mg.; nicotine below 0.05 mg. or carbon monoxide below 0.5 mg. per digarette.
5 Mg. per digarette.
5 Mg. per digarette.

	IC CIGARETTES TESTED BY FTC METHOD			<b>.</b>					
BRANDS OF DOMESTIC CIGARETTES TESTED BY FIC METHOD  (Increasing Order of Tex)  BRAND  TYPE  NAME									
BRAND	TYPE	_1	<b>₹</b>	5 2					
NAME	IIPE	•	3	¥ 3					
		TAR 1	ž	2 3					
TAREVTON: 100	100MM; FILTER KING SIZE; FILTER 120MM; FILTER; (HARD PACK) 120MM; FILTER; MENTHOL; (HARD PACK) KING SIZE; FILTER	13	0.9	15					
CENTIEV	KING SIZE: FILTED	14	ñá	16					
EVE IICUTE 120	120MM. FILTER (HADD DACK)	14	1 1	11					
EAE FIGHIS 150	120mm, Filmer, (HARD FACK)	14	1 1	11					
EVE LIGHTS 120	VINC CITE. DILERS	3.4	7.9	12					
GALAXI	NING SIZE; FIGIER	7.4	0.9	15					
KOOL SUPER LONGS 100	100MM; FILTER; MENTHOL	14	0.9	10					
F & W 100	IUUMM; FILTEK	14	1.0	13					
LARK	KING SIZE; FILTER	14	0.9	13					
NEWPORT RED	KING SIZE; FILTER	14	1.0	12					
SARATOGA 120	120MM; FILTER; (HARD PACK)	14	0.9	13					
SARATOGA 120	120MM; FILTER; MENTHOL; (HARD PACK)	14	0.9	13					
ST. MORITZ 100	100MM; FILTER	14	1.1	13					
ST. MORITZ 100	100MM; FILTER; MENTHOL	14	1.1	13					
VICEROY SUPER LONG 100	100MM; FILTER	14	0.9	16					
VIRGINIA SLIMS 100	100MM; FILTER *	14	0.9	12					
VIRGINIA SLIMS 100	100MM; FILTER; MENTHOL	14	0.9	13					
BENSON & HEDGES	KING SIZE; FILTER; (HARD PACK)	15	1,1	11					
KENT 100	100MM; FILTER; MENTHOL	15	1.2	14					
LARK 100	100MM; FILTER	15	1.0	15					
MONTCLAIR	120MM; FILTER; MENTHOL; (HARD PACK) KING SIZE; FILTER 100MM; FILTER; MENTHOL 100MM; FILTER KING SIZE; FILTER KING SIZE; FILTER 120MM; FILTER; (HARD PACK) 120MM; FILTER; MENTHOL; (HARD PACK) 120MM; FILTER; MENTHOL 100MM; FILTER 100MM; FILTER 100MM; FILTER 100MM; FILTER 100MM; FILTER; MENTHOL KING SIZE; FILTER; (HARD PACK) 100MM; FILTER KING SIZE; FILTER; MENTHOL 100MM; FILTER KING SIZE; FILTER; MENTHOL 100MM; FILTER KING SIZE; FILTER; MENTHOL 100MM; FILTER; MENTHOL; (HARD PACK) 100MM; FILTER; MENTHOL; (HARD PACK)	15	1.0	15					
PALL MALL 100	100MM: FILTER	15	1.1	15					
RALEIGH	KING SIZE; FILTER	15	0.9	16					
RICHLAND	KING SIZE; FILTER; MENTHOL	15	1.0	13					
ALPINE	KING SIZE: FILTER; MENTHOL	16	0.9	14					
BENSON & HEDGES 100	100MM: FILTER: (HARD PACK)	16	1.0	15					
BENSON & HEDGES 100	100MM: FILTER: MENTHOL: (HARD PACK)	16	1.0	15					
BENSON & HEDGES 100	100MM: FILTER	16	1.0	15					
BENSON & HEDGES 100	100MM: FILTER: MENTHOL	16	1.0	15					
CAMEL CAMEL KOOL KOOL MARLBORO MARLBORO MARLBORO MARLBORO MARLBORO MARLBORO MARLBORO	100MM; FILTER; MENTHOL; (HARD PACK) 100MM; FILTER; MENTHOL KING SIZE; FILTER; (HARD PACK) KING SIZE; FILTER KING SIZE; FILTER; MENTHOL; (HARD PACK) KING SIZE; FILTER; MENTHOL KING SIZE; FILTER (HARD PACK) KING SIZE; FILTER KING SIZE; FILTER KING SIZE; FILTER; MENTHOL	16	1.1	15					
CAMEL	KING SIZE: FILTER	16	1.1	14					
KOOT.	KING SIZE: FIL: MENTHOL: (HARD PACK)	16	1.1	15					
KOOL	KING SIZE: FILTER: MENTHOL	16	1.0	14					
MARIRORO	KING SIZE: FILTER (HARD PACK)	16	1.0	14					
MARIBORO	KING SIZE: FILTER	16	1.0	15.					
MARI BORO	KING SIZE; FILTER; MENTHOL	16	1.0	14					
MARLBORO 100	100MM; FILTER; (HARD PACK)	16	1.0	14					
MARLBORO 100	100MM; FILTER		1.0						
MORE 120	120MM; FILTER; MENTHOL		1.2						
	KING SIZE; FIL; MENTHOL; (HARD PACK)		1.1						
NEWPORT	REG SIZE; NON-FILTER		1.0						
PICAYUNE	100MM; FILTER		1,0						
RALEIGH 100	KING SIZE; FILTER		1.1						
RICHLAND	KING SIZE; FILTER; MENTHOL		î.î						
SALEM .	WING SIDE! LIMINAL EMPIRIOR								

TAR NICOTINE AND CO CONTENT OF TWO HUNDRED SEVEN

<sup>1 &</sup>quot;Tar" - milligrams total particulate matter less micotine and water per digarette.
2 Nicotine total alkaloids reported in milligrams per digarette.
3 Carton Monocide reported in milligrams per digarette.
4 Indicates "tar" below 0.5 mg.; micotine below 0.05 mg. or carton monocide below 0.5 mg. per digarette.
44 See statement in text concerning Bool Ultra brands.

BRAND NAME  SALEM 100  100MM; FILTER; MENTHOL VICEROY  KING SIZE; FILTER WINSTON  KING SIZE; FILTER  WINSTON  120MM; FILTER; (HARD PACK)  MORE 120  120MM; FILTER  KING SIZE; FILTER  PALL MALL  PHILIP MORRIS INTERNATIONAL  100MM; FILTER (HARD PACK)  PHILIP MORRIS INTERNATIONAL  100MM; FILTER; MENTHOL; (HARD PACK)					
BRAND	TYPE	· • '	Ě	8 <del>2</del>	
NAME		×	8	38	
•		-	Æ	- 4	
SALEM 100	100MM; FILTER; MENTHOL	16	1.2	15	
VICEROY	KING SIZE; FILTER	16	0.9	16	
WINSTON	KING SIZE; FILTER; (HARD PACK)	16	1,1	14	
WINSTON	KING SIZE; FILTER	16	1.1	15	
WINSTON INTERNATIONAL 100	100MM; FILTER; (HARD PACK)	16	1.1	14	
MORE 120	120MM; FILTER	17	1.2	20	
NEWPORT .	KING SIZE; FILTER; MENTHOL	17	1.2	17	
OLD GOLD FILTER	KING SIZE; FILTER	17	1.3	18	
PALL MALL	KING SIZE; FILTER	17	1.1	16	
PHILIP MORRIS INTERNATIONAL	100MM; FILTER (HARD PACK)	17	1.1	16	
PHILIP MORRIS INTERNATIONAL	100MM; FILTER; MENTHOL; (HARD PACK)	17	1.1	16	
TALL 120	120MM; FILTER; MENTHOL	17	1.3	17	
WINSTON 100	100MM; FILTER	17	1.2	16	
HALF & HALF	KING SIZE: FILTER	18	1.3	17	
MAX 120	120MM; FILTER	18	1.4	17	
CHESTERFIELD	REG SIZE: NON-FILTER	19	1.2	11	
MAX 120	120MM; FILTER; MENTHOL	19	1.4	17	
NEWPORT 100	100MM: FILTER: MENTHOL	19	1.5	20	
SPRING 100	100MM; FILTER; MENTHOL	19	1.1	16	
KOOL	REG SIZE; NON-FILTER; MENTHOL	20	1.2	14	
OLD GOLD FILTER 100	100MM; FILTER	20	1.5	20	
TALL 120	120MM; FILTER	20	1.5	19	
CAMEL	REG SIZE: NON-FILTER	21	1.4	13	
PHILIP MORRIS	REG SIZE; NON-FILTER	21	1.2	12	
CHESTERFIELD	KING SIZE: NON-FILTER	22	1.5	13	
ENGLISH OVALS	REG SIZE; NON-FILTER; (HARD PACK)	23	1.8	11	
LUCKY STRIKE	REG SIZE; NON-FILTER	23	1.4	16	
PALL MALL	KING SIZE; NON-FILTER	23	1.3	15	
HERBERT TAREYTON	KING SIZE; NON-FILTER	24	1.5	16	
PLAYERS	REG SIZE; NON-FILTER; (HARD PACK)	25	1.9	15	
RALEIGH	KING SIZE: NON-FILTER	25	1.4	16	
OLD GOLD STRAIGHT	KING SIZE: NON-FILTER	26	1.6	17	
PHILIP MORRIS COMMANDER	KING SIZE: NON-FILTER	26	1.6	14	
BULL DURHAM	KING SIZE; FILTER	28	1.8	23	
ENGLISH OVALS	100MM; FILTER; MENTHOL; (HARD PACK) 120MM; FILTER; MENTHOL 100MM; FILTER KING SIZE; FILTER 120MM; FILTER REG SIZE; NON-FILTER 120MM; FILTER; MENTHOL 100MM; FILTER; MENTHOL 100MM; FILTER; MENTHOL 100MM; FILTER; MENTHOL 100MM; FILTER REG SIZE; NON-FILTER; MENTHOL 100MM; FILTER REG SIZE; NON-FILTER REG SIZE; NON-FILTER REG SIZE; NON-FILTER RING SIZE; NON-FILTER	28	2.1	14	

below 0.5 mg. per cigaretts.
\*\* See statement in text concerning Rool Ultra brands.

<sup>&</sup>quot;Thr" - milligrams total particulate matter less nicotine and water per digarette. Ricotine total alkaloids reported in milligrams per digarette. Carton Monocide reported in milligrams per digarette. Indicates "tar" below 0.5 mg.; nicotine below 0.05 mg. or carbon monocide

BRANDS OF DOMEST	TIC CIGARETTES TESTED BY FTC METHOD puring Order of Nicotine)		•••	- W
BRAND	TYPE	TAR 1	MI COTTINE	CARBON
0 18 hd 60m	KING SIZE; FILTER; (HARD PACK) KING SIZE; FILTER; (HARD PACK) 100MM; FILTER; MENTHOL; (HARD PACK) KING SIZE; FILTER; (HARD PACK) REG SIZE; FILTER; (HARD PACK) KING SIZE; FILTER KING SIZE; FILTER KING SIZE; FILTER KING SIZE; FILTER; MENTHOL 100MM; FILTER; (HARD PACK) KING SIZE; FILTER KING SIZE; FILTER KING SIZE; FILTER; MENTHOL 100MM; FILTER; (HARD PACK) 100MM; FILTER; MENTHOL 100MM; FILTER; MENTHOL KING SIZE; FILTER 100MM; FILTER; MENTHOL 100MM; FILTER; MENTHOL KING SIZE; FILTER 100MM; FILTER 100MM; FILTER; MENTHOL KING SIZE; FILTER MENTHOL KING SIZE; FILTER MENTHOL KING SIZE; FILTER; MENTHOL	7	Ē	03
CAMBRIDGE	KING SIZE; FILTER; (HARD PACK)	*	*	*
CARLTON '	KING SIZE; FILTER; (HARD PACK)	*	*	*
CARLTON 100	100MM; FILTER; MENTHOL; (HARD PACK)	*	*	<b>*</b>
NOW TRACE	KING SIZE; FILTER; (HARD PACK)	*	*	*
BENSON & HEDGES	REG SIZE; FILTER; (HARD PACK)	1	0.1	2
CAMBRIDGE	KING SIZE; FILTER	1	0.1	Ţ
CARLTON	KING SIZE; FILTER KING SIZE: PILTED, MENTUM	1	0.1	2
CARLTON 100	100M+ FILTED+ (HADD DACK)	1	0.1	*
KOOL HLTRA**	KING SIZE: FILTER: MENTHOL	2	0.1	1
NOW	KING SIZE: FILTER	ĩ	0.1	ż
NOW	KING SIZE: FILTER: MENTHOL	ī	0.1	ī
NOW 100	100MM; FILTER: (HARD PACK)	*	0.1	*
NOW 100	100MM; FILTER; MENTHOL	2	0.2	1
ICEBERG 100	100MM; FILTER; MENTHOL	4	0.3	4
KENT III	KING SIZE; FILTER	3	0.3	2
NOW 100	100MM; FILTER	3	0.3	2
TRIUMPH	KING SIZE; FILTER	3	0.3	3
TRIUMPH	KING SIZE; FILTER; MENTHOL	3	0.3	2
BENSON & HEDGES ULTRA LIGHT	100MM; FILTER; (HARD PACK)	5	0.4	5
SENSON & REDGES ULTRA LIGHT	100MM; FILTER; MENTHOL; (HARD PACK)	5	0.4	5
CAMBRIDGE 100	TOOMN; FILTER	5	0.4	2
CARLION 100	100MM, FILTER 100MM, FILTER, MENTHOL	5	U.4	6
DORAL II	KING SIZE: FILTER	4	0.4	3
DORAL II	KING SIZE: FILTER: MENTHOL	4	0.4	3
KENT III 100	100MM; FILTER	4	0.4	5
KOOL ULTRA 100 **	100mm; FILTER; MENTHOL	4	0.4	3
MERIT ULTRA LIGHTS	KING SIZE; FILTER	5	0.4	5
MERIT ULTRA LIGHTS	KING SIZE; FILTER; MENTHOL	5	0.4	5
MERIT ULTRA LIGHTS 100	100mm; FILTER	5	0.4	6
MERIT ULTRA LIGHTS 100	100MM; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL 100MM; FILTER; MENTHOL KING SIZE: FILTER	4	0.4	4
SALEM ULTRA	KING SIZE; FILTER; MENTHOL	5	0.4	6
SALEM ULTRA 100	100MM; FILTER; MENTHOL	5	0.4	6
		_		
TRIUMPH 100	100MM; FILTER		0.4	5
TRIUMPH 100 .	100MM; FILTER; MENTHOL KING SIZE; FILTER		0.4	
TRUE TRUE	KING SIZE; FILTER; MENTHOL		0.4	
VANTAGE ULTRA LIGHTS	KING SIZE; FILTER, MENTHOL			6
VANTAGE ULTRA LIGHTS	KING SIZE; FILTER; MENTHOL		0.4	.6
VANTAGE ULTRA LIGHTS 100	100mm; FILTER; MENTHOL		0.4	7
WINSTON ULTRA LIGHTS	KING SIZE; FILTER		0.4	6
	•			

TAR NICOTINE AND CO CONTENT OF TWO HUNDRED SEVEN

 <sup>&</sup>quot;Tar" - milligrams total particulate metter less nicotine and water per digarette.
 Ricotine total alkaloids reported in milligrams per digarette.
 Carton Monoxide reported in milligrams per digarette.
 Indicates "tar" below 0.5 mg.; nicotine below 0.05 mg. or carbon monoxide

helow 0.5 mg. per cigaretts.

<sup>&</sup>quot;Ter" - milligrams total particulate matter less micotine and water per digarette.

<sup>2</sup> Micotine total alkaloids reported in milligrams per cigaretts.
3 Carton Monocide reported in milligrams per cigarette.
\* Indicates "tar" below 0.5 mg.; nicotine below 0.05 mg. or carbon monocide

below 0.5 mg. per cigarette.

(Increasing Order of Ricotine)			•	. 199
77.117	and a company		₩.	* E
BRAND	TYPE	-	E	25
NAME	•	TAR 1	<b>1</b> 0	CARBON
VANTAGE	KING SIZE; FILTER; MENTHOL  100MM; FILTER  100MM; FILTER; MENTHOL  KING SIZE; FILTER  KING SIZE; FILTER  100MM; FILTER  KING SIZE; FILTER  100MM; FILTER  100MM; FILTER; MENTHOL  100MM; FILTER; MENTHOL  100MM; FILTER; MENTHOL  100MM; FILTER  KING SIZE; FILTER; MENTHOL  KING SIZE; FILTER; MENTHOL  KING SIZE; FILTER  100MM; FILTER  100MM; FILTER  KING SIZE; FILTER  100MM; FILTER  100MM; FILTER  KING SIZE; FILTER  100MM; FILTER; MENTHOL  KING SIZE; FILTER  KING SIZE; FILTER  100MM; FILTER; (HARD PACK)  KING SIZE; FILTER  KING SIZE; FILTER	۰	07	12
VANTAGE A100	100MM FILTER	٥	0.7	33
VANTAGE 300	100M, FILTER MENTURY	9	0.7	7.1
VANIAGE IVU	VINC CIPE, DIEMP	30	0.7	7.1
VICEROI RICH EIGHIS	KING SIZE; FILTER	10	0.7	10
WINSTON LIGHTS	KING SIZE; FILTER	. 8	0.7	- 9
CAMEL LIGHTS 100	TOUMM; FILTER	11	0.8	14
KENT GOLDEN LIGHTS	KING SIZE; FILTER	9	0.8	9
KENT GOLDEN LIGHTS 100	100MM; FILTER	9	0.8	10
KENT GOLDEN LIGHTS 100	100MM; FILTER; MENTHOL	9	0.8	9
KOOL MILDS 100	100mm; FILTER; MENTHOL	11	0.8	12
L & M LIGHTS 100	100MM; FILTER	8	0.8	6
LUCKY STRIKE	KING SIZE: FILTER: (HARD PACK)	11	0.8	10
LUCKY STRIKE	KING SIZE: FILTER	10	0.8	10
MULTIFILTER	KING SIZE: FILTER	12	n a	10
MILTIFILTER	KING SIZE: PILTED: MENTHOL	12	0.0	10
NEWDORT LIGHTS 100	100M. PIITED. MENTUOI	10	A 0	10
OLD COLD LICENCE	VINC CIPE, DIEMP	. 10	0.0	10
DADITAGE TOURS 100	AING SIZE; FILTER	` ```	0.8	10
PARLIAMENT LIGHTS 100	TOUMM; FIETER	12	0.8	11
PLAYERS	KING SIZE; FILTER; (HARD PACK)	12	0.8	11
PLAYERS	KING SIZE; FILTER; MENTHOL	12	0.8	11
RALEIGH LIGHTS	KING SIZE; FILTER	10	0.8	10
SATIN 100	100MM; FILTER; MENTHOL	9	0.8	10
VICEROY RICH LIGHTS 100	100MM; FILTER	11	0.8	11
WINSTON LIGHTS 100	100MM; FILTER	11	0.8	13
ALPINE	KING SIZE: FILTER: MENTHOL	16	0.9	14
CENTURY	KING SIZE: FILTER	14	0.9	16
DORADO	KING SIZE: FILTER	13	0.9	12
EVE LIGHTS 100	100MM· FILTER	12	n q	
EVE LIGHTS 100	100MM - FILTER - MENTHOI	12	0.0	á
CALARY	VINC CIPE. BILDED	14	0.5	13
VEND	VINC CITE, PILIER	14	0.5	13
REN I	KING SIZE; FILTER; (MARD PACK)	14	0.5	7.1
KENT	KING SIZE; FILTER	12	0.9	10
KOOL SUPER LONGS 100	100MM; FILTER; MENTHOL	14	0.9	15
L&M	KING SIZE; FILTER; (HARD PACK)	13	0.9	13
L & M	KING SIZE; FILTER	13	0.9	13
LARK	KING SIZE; FILTER	14	0.9	13
LARK LIGHTS -	KING SIZE; FILTER	13	0.9	12
LUCKY STRIKE 100	100MM; FILTER	11	0.9	10
NEWPORT RED	KING SIZE; FILTER; (HARD PACK)		0.9	
PLAYERS 100	100MM; FILTER; (HARD PACK)		0.9	
PLAYERS 100	100MM; FILTER; MENTHOL; (HARD PACK)			
RALEIGH	KING SIZE; FILTER		0.9	
SARATOGA 120	120mm; FILTER; (HARD PACK)	14	0.9	13

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<sup>1 &</sup>quot;Tar" - milligrams total particulate matter less nicotine and water per cigarette.
2 Micotine total alkaloids reported in milligrams per cigarette.
3 Carbon Morcoide reported in milligrams per cigarette.
4 Indicates "tar" below 0.5 mg.; nicotine below 0.05 mg. or carbon morcoide below 0.5 mg. per cigarette.

TAR NICOTINE AN	D CO CONTENT OF TWO HUNDRED SEVEN			ı
BRANDS OF DOMEST	IC CIGARETTES TESTED BY FTC METHOD			in
•	asing Order of Nicotine).	_	<u> </u>	CARBON MONOXTOE
BRAND	TYPE	-	٠Ē	55.5
NAME		TAR 1	MICOTINE	చక్త
CARAMOCA 120	120MM; FILTER; MENTHOL; (HARD PACK) 100MM; FILTER 100MM; FILTER; MENTHOL KING SIZE; FILTER 100MM; FILTER KING SIZE; FILTER 100MM; FILTER 100MM; FILTER 100MM; FILTER 100MM; FILTER; MENTHOL 100MM; FILTER; (HARD PACK) 100MM; FILTER; MENTHOL; (HARD PACK) 100MM; FILTER; MENTHOL; (HARD PACK)		_ <b>≥</b>	
CARAIOGA 120	120MM; FILTER; MENTHOL; (HARD PACK)	14	0.9	13
SATIN IOU	100MM; FILTER	10	0.9	7.7
SILVA INING 100	100m, Eller Memor	11	0.9	9
MADEAWOR	VINC CITE, DIEND	7.7	0.9	. 8
TARELION TARELION	NING SIZE; FILTER	12	0.9	14
VICEBOV	KING CITE. DILTED	12	0.9	12
VICEROY SUBER LONG 100	AING GIZE, FILIER	70	0.5	10
VIRGINIA SIIMS 100	100mm, FILIER	14	0.9	10
VIRGINIA SLIMS 100	100MM· FILTER· MENTHOT	14	0.9	12
BENSON & HEDGES 100	100M. FILTER. (HARD DACK)	16	3.0	12
BENSON & HEDGES 100	100MM+ FILTER+ MENTHOL+ (HARD DACK)	16	3.0	15
BENSON & HEDGES 100	100MM FILTER	16	1.0	15
BENSON & HEDGES 100	100MM: FILTER: MENTHOL	16	1.0	15
KENT 100	100MM: FILTER	13	1.0	11
KOOL	KING SIZE: FILTER: MENTHOL	16	1 0	14
L & M 100	100MM: FILTER	14	1.0	13
LARK 100	100MM: FILTER	15	1.0	15
LARK LIGHTS 100	100MM: FILTER	13	1.0	13
MARLBORO	100MM; FILTER; (HARD PACK) 100MM; FILTER; MENTHOL; (HARD PACK) 100MM; FILTER; MENTHOL 100MM; FILTER KING SIZE; FILTER; MENTHOL 100MM; FILTER 100MM; FILTER 100MM; FILTER KING SIZE; FILTER (HARD PACK) KING SIZE; FILTER; MENTHOL 100MM; FILTER; (HARD PACK) 100MM; FILTER; (HARD PACK) 100MM; FILTER KING SIZE; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL REG SIZE; NON-FILTER 100MM; FILTER; MENTHOL REG SIZE; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL KING SIZE; FILTER; (HARD PACK) 120MM; FILTER; MENTHOL; (HARD PACK)	16	1.0	14
MARLBORO	KING SIZE: FILTER	16	1.0	15
MARLBORO	KING SIZE: FILTER: MENTHOL	16	1.0	14
MARLBORO 100	100MM; FILTER; (HARD PACK)	16	1.0	14
MARLBORO 100	100MM; FILTER	16	1.0	15
MONTCLAIR	KING SIZE; FILTER; MENTHOL	15	1.0	15
NEWPORT RED ,	KING SIZE; FILTER	14	1.0	15
PALL MALL LIGHT 100	100MM; FILTER; MENTHOL	12	1.0	11
PICAYUNE	REG SIZE; NON-FILTER	16	1.0	12
RALEIGH 100	100MM; FILTER	16	1.0	17
RICHLAND	KING SIZE; FILTER; MENTHOL	15	1.0	13
BENSON & HEDGES	KING SIZE; FILTER; (HARD PACK)	15	1.1	11
CAMEL	KING SIZE; FILTER; (HARD PACK)	16	1.1	15
CAMEL	KING SIZE; FILTER	16	1.1	14
EVE LIGHTS 120	120MM; FILTER; (HARD PACK)	14	1.1	11
EVE LIGHTS 120	120mm; FILTER; MENTHOL; (HARD PACK)	14	1.1	11
YOOD .	KING BIZE, FIE, FEMILIOE, (MAKE PACK)	10	* • *	13
NEWPORT	KING SIZE; FIL; MENTHOL; (HARD PACK)		1.1	
PALL MALL	KING SIZE; FILTER		1.1	
PALL MALL 100	100MM; FILTER		1.1	
PHILIP MORRIS INTERNATIONAL			1.1	
	100MM; FILTER; MENTHOL; (HARD PACK)		1.1	
RICHLAND	KING SIZE; FILTER		1.1	
SALEM ,	KING SIZE; FILTER; MENTHOL	ΤĎ	1.1	ΤΩ

 <sup>&</sup>quot;Tar" - milligrams total particulate matter less minotine and water per digaretts.
 Nicotine total alkaloids reported in milligrams per digaretts.
 Carbon Noncoide reported in milligrams per digaretts.
 Indicates "tar" below 0.5 mg.; micotine below 0.05 mg. or carbon monocide below 0.5 mg. per digaretts.
 See statement in text concerning Rool Ultra brands.

	TIC CIGARETTES TESTED BY FTC METHOD ensing Order of Nicotine)		• • • • • • • • • • • • • • • • • • •	95) - 95)
BRAND NAME	TYPE	TAR 1	псотти	CARBON DROXTD
SPRING 100	100MM; FILTER; MENTHOL 100MM; FILTER 100MM; FILTER; MENTHOL KING SIZE; FILTER; (HARD PACK) KING SIZE; FILTER	19	1.1	16
ST. MORITZ 100	100MM: FILTER	14	1.1	13
ST. MORITZ 100	100MM: FILTER: MENTHOL	14	1 1	13
WINSTON	KING SIZE: FILTER: (HARD PACK)	16	1.1	14
WINSTON	KING SIZE: FILTER	16	1.1	15
WINSTON INTERNATIONAL 100	100MM: FILTER: (HARD PACK)	16	1.1	14
CHESTERFIELD	REG SIZE: NON-FILTER	19	1.2	11
KENT 100	100MM: FILTER: MENTHOL	15	1 2	14
KOOL	REG SIZE: NON-FILTER: MENTHOL	20	1.2	14
MORE 120	120MM: FILTER	17	1.2	20
MORE 120	120MM: FILTER: MENTHOL	16	1.2	19
NEWPORT	KING SIZE: FILTER: MENTHOL	17	1.2	17
PHILIP MORRIS	REG SIZE: NON-FILTER	21	1.2	ī2
SALEM 100	100MM: FILTER: MENTHOL	16	1.2	15
WINSTON 100	100MM: FILTER	17	1.2	16
HALF & HALF	KING SIZE: FILTER	18	1:3	17
OLD GOLD FILTER	KING SIZE: FILTER	17	1.3	18
PALL MALL	KING SIZE: NON-FILTER	23	1.3	15
TALL 120	120MM; FILTER; MENTHOL	17	1.3	17
CAMEL	REG SIZE; NON-FILTER	21	1.4	13
LUCKY STRIKE	REG SIZE; NON-FILTER	23	1.4	16
MAX 120	120MM; FILTER	18	1.4	17
MAX 120	120MM; FILTER; MENTHOL	19	1.4	17
RALEIGH	KING SIZE; NON-FILTER	25	1.4	16
CHESTERFIELD	KING SIZE; NON-FILTER	22	1.5	13
HERBERT TAREYTON	KING SIZE; NON-FILTER	24	1.5	16
NEWPORT 100	100mm; FILTER; MENTHOL	19	1.5	20
OLD GOLD FILTER 100 ·	KING SIZE; FILTER; (HARD PACK) KING SIZE; FILTER 100MM; FILTER; (HARD PACK) REG SIZE; NON-FILTER 100MM; FILTER; MENTHOL REG SIZE; NON-FILTER; MENTHOL 120MM; FILTER 120MM; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL REG SIZE; NON-FILTER 100MM; FILTER; MENTHOL 100MM; FILTER KING SIZE; FILTER KING SIZE; FILTER KING SIZE; FILTER KING SIZE; NON-FILTER 120MM; FILTER; MENTHOL REG SIZE; NON-FILTER 120MM; FILTER; MENTHOL KING SIZE; NON-FILTER 120MM; FILTER; MENTHOL KING SIZE; NON-FILTER 100MM; FILTER; MENTHOL 100MM; FILTER; MENTHOL	20	1.5	20
TALL 120	100MM; FILTER 120MM; FILTER KING SIZE; NON-FILTER	20	1.5	19
OLD GOLD STRAIGHT	KING SIZE; NON-FILTER	26	1.6	

KING SIZE; NON-FILTER

REG SIZE: NON-FILTER; (HARD PACK)

REG SIZE: NON-FILTER; (HARD PACK)

KING SIZE; NON-FILTER; (HARD PACK) 28 2.1 14

KING SIZE; FILTER

TAR NICOTINE AND CO CONTENT OF TWO HUNDRED SEVEN

See statement in text expouning Real Ultra branks.

PHILIP MORRIS COMMANDER

BULL DURHAM

PLAYERS

ENGLISH OVALS

ENGLISH OVALS

ړلږ

26 1.6 14

28 1.8 23

23 1.8 11

25 1.9 15

<sup>&</sup>quot;Tar" - milligrams total particulate matter less micotine and water per digarette.

<sup>2</sup> Nicotine total alkaloids reported in milligrams per digarette.

'3 Carbon Monoscide reported in milligrams per digarette.

\* Indicates "tar" below 0.5 mg.; nicotine below 0.05 mg. or carbon monoscide below 0.5 mg. per cigarwite.

TAR NICOTINE AND CO CONTENT OF TWO HUNDRED SEVEN BRANDS OF DOMESTIC CIGARETTES TESTED BY FTC METHOD  (Increasing Order of Carbon Monoxide)				
			₹	35
BRAND	TYPE	<b></b>	Ĕ	25
NAME		TAR	WTCOTINE	CARBON
CLUBBIDGE	KING SIZE; FILTER; (HARD PACK) KING SIZE; FILTER; (HARD PACK) 100MM; FILTER; (HARD PACK) 100MM; FILTER; MENTHOL; (HARD PACK) KING SIZE; FILTER; (HARD PACK) KING SIZE; FILTER KING SIZE; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL 100MM; FILTER; MENTHOL REG SIZE; FILTER; (HARD PACK) KING SIZE; FILTER 100MM; FILTER; MENTHOL KING SIZE; FILTER	•		4
CAMBRIDGE	RING SIZE; FILIER; (MARD PACK)	4	4	<u></u>
CARLTON 100	NING SIZE; FILIER; (MARD PACK)	~	^~;	2
CARLTON 100	1000M; FILTER; (DARD PACK)		0.1	<u>.</u>
CARLTON 100	TOUMM; FILIER; MENITOL; (MARD PACK)	٠ -	<u>.</u>	<u>.</u>
NOW 100	100m, milmon, (upp nacy)	ı.	^^1	Ţ
NOW 100	TOUMM; FIDIER; (MARD PACK)	î	.0.1	,
CAMBRIDGE	Tring Size, Filier Menmudi	7	0.1	7
LARLIUN	KING SIZE; FILIEK; MENINOL KING SIZE: PILIPPD: MENTUOT	7	0.1	7
NOOL GLIRA	WING CIPP. PILMED. MENMUCE	7	0.1	•
NOW 100	AING SIZE; FIBIER; MENITOD	7	0.1	1
DENCON C UPDOEC	DEC CIPE, FILTER, MENTHOL DACK)	1	0.2	3
ENDON & REDGES	KING CITE: FILTED	1	0.1	2
VENUE III	KING CIPP. PILIPPD	2	0.1	2
RENT III	KING SIZE, FILIER	1	0.3	2
NOW 100	TONAL PILARD	<b>-</b>	0.1	2
WOM TOO	KING SIZE: FILTED: MENTHO!	3 T	0.3	2
IRIUMPH DODAL II	KING DIES, FIBIEN, MENINOD	3	0.3	2
DORAL II	KING SIZE; FILLER KING SIZE: FILTED: MENTHO!	* A	0.4	3
PORAL II	TOUR SIEE, FILIER, MENTHON	** A	0.4	3
MD LINDU	TOUTH; FILIEN; MENIAGE VINC CITE. DITTED	7	0.4	3
TRIUMPH	AING SIZE; FILIER	3	0.3	3
ACCEPTE ALMED FIGHTS 100	100mm; FILIER; MENITUD	4	0.3	4
MERIT ULTRA LIGHIS 100	TOUMM; FILIEN; MENITOD	*	0.4	*
TAREITON EIGHTS	AING SIZE; FILLER	4	0.4	4
TRIUMPH 100	TOUMM; FILTER; MENTHOL	4	0.4	4
TRUE	KING SIZE; FILTER 100MM; FILTER; (HARD PACK)	Ę	0.4	*
BENSON & REDGES ULIKA LIGHT	100mm; FILTER; (HARD PACK) 100mm; FILTER; MENTHOL; (HARD PACK)	5	0.4	5
BENZON & REDGES OFICE FIGUR	100mm; FILIER; MENITOL; (MARD PACK)	- -	0.4	5
CAMBRIDGE 100	100MM; FILIER	כ	0.4	ت =
CARLTON 120	100MM; FILTER 120MM; FILTER 120MM; FILTER; MENTHOL 100MM; FILTER KING SIZE; FILTER KING SIZE; FILTER	<b>'</b>	0.0	5
CARLTON 12U	100MM; FILTER; MENTHOL	/ A	0.6	5
KENT III 100	NINC CITE, DIMED	*	0.4	5 E
MERIT ULTRA LIGHTS	NING SIZE; FILTER	2	0.4	2
WEKII OPIVY PIGNIS	KING SIZE; FILTER; MENTHOL 100mm; FILTER		U . T	J
TRIUMPH 100	KING SIZE; FILTER; MENTHOL		0.4	5
TRUE	100MM; FILTER		0.4	
CARLTON 100	•		0.4	
CARLTON 100	100MM; FILTER; MENTHOL		0.8	
L & M LIGHTS 100	100MM; FILTER		0.4	
MERIT ULTRA LIGHTS 100	100MM; FILTER KING SIZE; FILTER; MENTHOL		0.4	
SALEM ULTRA			0.4	
SALEM ULTRA 100	100MM; FILTER; MENTHOL KING SIZE; FILTER			
VANTAGE ULTRA LIGHTS	VING SITE! LIPITE	Э	0.4	ø

<sup>&</sup>quot;Ter" - millionems total particulate matter less nicotine and enter per digarette.
Ricotine total alkaloids reported in millionems per digarette.
Carton Monoxide reported in millionems per digarette.
Indicates "tar" below 0.5 mg.; nicotine below 0.05 mg. or carbon monoxide below 0.5 mg. per digarette.
See statement in text concurning Rool Ultra brands.

(Increasing Order of Carbon Monoxide)			<b>بي</b> ا،	. W
BRAND NAME	KING SIZE; FILTER; MENTHOL 100MM; FILTER KING SIZE; FILTER 100MM; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL 100MM; FILTER; MENTHOL KING SIZE; FILTER KING SIZE; FILTER 100MM; FILTER 100MM; FILTER; MENTHOL 100MM; FILTER; MENTHOL 100MM; FILTER; (HARD PACK)	, <del></del>	MICOTINE	CARBON MONOXIDE
		. 2	Ĕ	25€
VANTAGE ULTRA LIGHTS	KING SIZE; FILTER; MENTHOL	5	0.4	6
VANTAGE ULTRA LIGHTS 100	100MM; FILTER	5	0.5	6
WINSTON ULTRA LIGHTS	KING SIZE; FILTER	5	0.4	6
BELAIR 100	100MM; FILTER; MENTHOL	8	0.6	7
BRIGHT	KING SIZE; FILTER; MENTHOL	6	0.5	7
BRIGHT 100	100MM; FILTER; MENTHOL	6	0.5	7
L & M LIGHTS	KING SIZE; FILTER	8	0.7	7
PALL MALL EXTRA LIGHT	KING SIZE; FILTER	7	0.6	7
TAREYTON LONG LIGHTS 100	100MM; FILTER	7	0.6	7
VANTAGE ULTRA LIGHTS 100	100MM; FILTER 100MM; FILTER; MENTHOL 100MM; FILTER; (HARD PACK)	5	0.4	7
VIRGINIA SLIMS LIGHTS 100	100MM; FILTER; (HARD PACK)	8	0.6	7
WINSTON ULTRA LIGHTS 100	IUUMM; FILIER	5	0.5	7
CAMEL LIGHTS	KING SIZE; FILTER; (HARD PACK) KING SIZE; FILTER; MENTHOL 100MM; FILTER; (HARD PACK)	9	0.7	8
KENT GOLDEN LIGHTS	KING SIZE; FILTER; MENTHOL	8	0.7	8
MORE LIGHTS 100	100MM; FILTER; (HARD PACK)	8	0.6	8
MORE LIGHTS 100	100MM; FILTER; MENTHOL; (HARD PACK)	8	0.6	8
NEWPORT LIGHTS	KING SIZE; FILTER; (HARD PACK) KING SIZE; FILTER; MENTHOL 100MM; FILTER; (HARD PACK) 100MM; FILTER; MENTHOL; (HARD PACK) KING SIZE; FILTER; MENTHOL 100MM; FILTER; MENTHOL 100MM; FILTER	8	0.7	8
SILVA THINS 100	100MM; FILTER; MENTHOL	11	0.9	8
	100MM; FILTER	8	0.6	8
TRUE 100	100MM; FILTER 100MM; FILTER; MENTHOL 100MM: FILTER: MENTHOL: (HARD PACK)	7	0.6	8
VIRGINIA SLIMS LIGHTS 100	100MM; FILTER; MENTHOL; (HARD PACK) KING SIZE; FILTER; MENTHOL 100MM; FILTER	. 8	0.6	8
BELAIR .	KING SIZE; FILTER; MENTHOL	10	0.7	9
EVE LIGHTS 100 EVE LIGHTS 100	100MM; FILTER	12	0.9	9
EVE LIGHTS 100	THINMS BITTINGS MENTHEN.	17	n a	9
KENT GOLDEN LIGHTS	KING SIZE; FILTER 100MM; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL 100MM; FILTER; MENTHOL KING SIZE; FILTER	9	0.8	9
KENT GOLDEN LIGHTS 100	100MM; FILTER; MENTHOL	9	0.8	9
KOOL LIGHTS ,	KING SIZE; FILTER; MENTHOL	8	0.7	9
ROOL LIGHTS 100	100MM; FILTER; MENTHOL	9	0.7	9
MERIT	KING SIZE; FILTER	8	0.5	9
NEWPORT LIGHTS	KING SIZE; FIL; MENTHOL; (HARD PACK)	9	0.7	9
PALL MALL LIGHT 100	100MM; FILTER	9	0.7	9
PARLIAMENT LIGHTS	KING SIZE; FILTER; (HARD PACK)	9	0.6	9
PARLIAMENT LIGHTS	KING SIZE, FILIEK	9	0.0	2
RALEIGH LIGHTS 100	100MM; FILTER	• 9	0.7	
SALEM SLIM LIGHTS 100	100MM; FILTER; MENTHOL; (HARD PACK)	. 8	0.7	
SILVA THINS IUU	TOUMM; FILTER	<b>1</b> 1	0.9	9
WINSTON LIGHTS	KING SIZE; FILTER		0.7	
BENSON & HEDGES LIGHTS 100			0.7	
CAMEL LIGHTS	KING SIZE; FILTER		0.7	
KENT	KING SIZE; FILTER		0.9	
KENT GOLDEN LIGHTS 100	100MM; FILTER		8.0	
LUCKY STRIKE	KING SIZE; FILTER; (HARD PACK)		0.8	
LUCKY STRIKE	KING SIZE; FILTER	TO	0.8	10

<sup>&</sup>quot;Tar" - milligrams total particulate matter less nicotine and water per digarette.
Nicotine total alkaloids reported in milligrams per digarette.
Garton Monocide reported in milligrams per digarette.
Indicates "tar" below 0.5 mg.; nicotine below 0.05 mg. or carbon monocide below 0.5 mg. per digarette.
See statement in text concerning Sool Ultra brands.

TAR NICOTINE AND CO CONTENT OF 1	WO HUNDRED SEVEN						
BRANDS OF DOMESTIC CIGARETTES TES	TED BY FTC METHOD						
. [Increasing Order of Carbon Monoxide]							
<b>MYDE</b>	•						

DAMES OF DOMEST	asing Order of Carbon Monoxide)		•	, <b>en</b>
BRAND	TYPE	<b>-</b> .	벌	'∡'&
NAME	TYPE	<u> </u>	Ē	8 X
		TAR 1.	MICOȚINE	CARBON
THOUS STRIKE 100	100MM; FILTER KING SIZE; FILTER; MENTHOL KING SIZE; FILTER KING SIZE; FILTER; MENTHOL 100MM; FILTER; MENTHOL KING SIZE; FILTER KING SIZE; FILTER 100MM; FILTER; MENTHOL KING SIZE; FILTER KING SIZE; FILTER KING SIZE; FILTER KING SIZE; FILTER; (HARD PACK) 100MM; FILTER			
MEDIT	TOURM; FILTER	.11	0.9	10
MUMICIONE	KING SIZE; FILTER; MENTHOL	- 8	0.5	10
MULIFILIER	KING SIZE; FILTER	12	0.8	10
MULTIFILITER	KING SIZE; FILTER; MENTHOL	12	0.8	10
NEWPORT LIGHTS 100	100MM; FILTER; MENTHOL	10	0.8	10
OLD GOLD LIGHTS	KING SIZE; FILTER	9	0.8	10
RALEIGH LIGHTS	KING SIZE; FILTER	10	0.8	10
SATIN 100	100MM; FILTER; MENTHOL	9	0.8	10
VICEROY RICH LIGHTS	KING SIZE; FILTER	10	0.7	10
BENSON & HEDGES	KING SIZE: FILTER: (HARD PACK)	15	1.1	11
BENSON & HEDGES LIGHTS 100	100MM: FILTER	10	0.7	11
CENTURY LIGHTS	KING SIZE: FILTER	-0	0.7	11
CHESTERFIELD	REG SIZE: NON-RILTED	30	1.7	11
ENGLISH OVALS	DEG SIZE: MON_PIIMED. (UND DICK)	72	1.2	11
EVE LIGHTS 120	120MM. PILTER. JUNE DICK!	23	1.8	11
EVE LIGHTS 120	120MA PILMED, MENDUCK, (MAD DOM)	14	1.1	11
KENDA FAR DIGHTO INA	VINC CLIER; MENTHOL; (HARD PACK)	14	1.1	11
VENU 300	AING SIZE; FILTER; (HARD PACK)	12	0.9	11
KOOL MILDO	TOUMM; FILTER	13	1.0	11
NOOL MILUS	KING SIZE; FILTER; MENTHOL	10	0.7	11
MARLBORO LIGHTS	KING SIZE; FILTER; (HARD PACK)	10	0.7	11
MARLBORO LIGHTS	KING SIZE; FILTER; (HARD PACK) 100MM; FILTER KING SIZE; FILTER REG SIZE; NON-FILTER; (HARD PACK) 120MM; FILTER; (HARD PACK) 120MM; FILTER; MENTHOL; (HARD PACK) KING SIZE; FILTER; (HARD PACK) 100MM; FILTER KING SIZE; FILTER; MENTHOL KING SIZE; FILTER; (HARD PACK) KING SIZE; FILTER 100MM; FILTER 100MM; FILTER; MENTHOL 100MM; FILTER; MENTHOL 100MM; FILTER; MENTHOL 100MM; FILTER; MENTHOL 100MM; FILTER	10	0.7	11
MARLBORO LIGHTS 100	100MM; FILTER •	10	0.7	11
MERIT 100	100MM; FILTER; MENTHOL	9	0.7	11
PARLIAMENT LIGHTS 100	100MM; FILTER	12	0.8	11
PLAYERS	KING SIZE; FILTER; (HARD PACK)	12	0.8	11
PLAYERS	100MM; FILTER KING SIZE; FILTER; (HARD PACK) KING SIZE; FILTER; MENTHOL 100MM; FILTER; MENTHOL; (HARD PACK) KING SIZE; FILTER; MENTHOL 100MM; FILTER; MENTHOL 100MM; FILTER 100MM; FILTER 100MM; FILTER; MENTHOL 100MM; FILTER KING SIZE; FILTER 100MM; FILTER; MENTHOL KING SIZE; FILTER	12	0.8	11
PLAYERS 100	100MM: FILTER: MENTHOL: (HARD PACK)	13	0.9	11
SALEM LIGHTS	KING SIZE: FILTER: MENTHOL	- 6	0.7	11
SALEM LIGHTS 100	100MM: FILTER: MENTHOL	٥	0.7	11
SATIN 100	100MM · FITTED	10	0.7	7 7
VANTAGE 100	100M+ RIPER	10	0.7	7.7
VANTAGE 100	100M, FILMER, MENMUOL	7	0.7	11
VICEROV RICH LIGHTS IND	100mm; FILTER; MENINOL	. 7	0.7	11
DODADO	VINC CIER PILMER	11	0.8	11
POOL MILDE 100	NING SIZE; FILTER	13	0.9	12
KOOL MIEDS IUU	TOUMM; FILTER; MENTHOL	11	0.8	12
MERIT 100	100MM; FILTER		0,7	
PHILIP MORRIS	REG SIZE; NON-FILTER		1.2	
PICAYUNE	REG SIZE; NON-FILTER	16	1.0	12
PLAYERS 100	100MM; FILTER; (HARD PACK)		0.9	
VANTAGE	KING SIZE; FILTER		0.7	
VANTAGE	KING SIZE; FILTER; MENTHOL	9	0.7	12
· · · · · · · · · · · · · · · · · · ·				

<sup>&</sup>quot;Tar" - milligrams total particulate matter less micotine and water par cigarette. Ricotine total alkaloids reported in milligrams par cigarette. Carbon Monoxide reported in milligrams par cigarette. Indicates "tar" below 0.5 mg.; micotine below 0.05 mg. or carbon monoxide below 0.5 mg. par cigarette.

See statement in text concerning Scoil Ultra brands.

BRANDS OF DOMEST	FIC CIGARETTES TESTED BY FTC METHOD		••	•
Uncr	easing Order of Carbon Monoxide)		₩.	
BRAND	TYPE	•	Ē	\$ <del>\</del>
NAME	•	ŤAR 1.	NT COTT NE	CARBON HONOXIDE
VIDCINIA CLIMC 300	100MM; FILTER REG SIZE; NON-FILTER KING SIZE; NON-FILTER KING SIZE; FILTER KING SIZE; FILTER KING SIZE; FILTER 100MM; FILTER KING SIZE; FILTER; (HARD PACK) KING SIZE; FILTER; MENTHOL 120MM; FILTER; (HARD PACK) 120MM; FILTER; MENTHOL; (HARD PACK) 100MM; FILTER; MENTHOL 100MM; FILTER; MENTHOL 100MM; FILTER KING SIZE; FILTER; MENTHOL KING SIZE; FILTER 100MM; FILTER KING SIZE; NON-FILTER; (HARD PACK) 100MM; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL 100MM; FILTER; (HARD PACK) KING SIZE; FILTER; (HARD PACK) 100MM; FILTER; MENTHOL; (HARD PACK) 100MM; FILTER; MENTHOL; (HARD PACK)	-	=	1
CAMPI	DEC CITE NON ELLMEN	14	0.9	12
Chacabbility	REG SIZE; NON-FILTER	21	1.4	13
CALLU	KING SIZE; NON-FILTER	22	1.5	13
T F M	KING SIZE; FILTER	14	0.9	13
L & M	KING SIZE; FILTER; (MARD PACK)	13	0.9	13
L & M T r U 100	KING SIZE; FILTER	13	0.9	13
L & M IVV	TOUMM; FILTER	14	1.0	13
LARR	KING SIZE; FILTER	14	0.9	13
LARR LIGHTS 100	TOUMM; FILTER	13	1.0	13
NEWPORT RED	KING SIZE; FILTER; (HARD PACK)	12	0.9	13
RICHLAND	KING SIZE; FILTER	16	1.1	13
RICHLAND	KING SIZE; FILTER; MENTHOL	15	1.0	.13
SARATOGA 120	120MM; FILTER; (HARD PACK)	14	0.9	13
SARATOGA 120	120MM; FILTER; MENTHOL; (HARD PACK)	14	0.9	13
ST. MORITZ 100	100MM; FILTER	14	1.1	13
ST. MORITZ 100	100km; Filter; MENTHOL	14	1.1	13
VIRGINIA SLIMS 100	100MM; FILTER; MENTHOL	14	0.9	13
WINSTON LIGHTS 100	100MM; FILTER .	11	0.8	13
ALPINE	KING SIZE; FILTER; MENTHOL	16	0.9	14
CAMEL'	KING SIZE; FILTER	16	1.1	14
CAMEL LIGHTS 100	100MM; FILTER	11	0.8	14
ENGLISH OVALS	KING SIZE; NON-FILTER; (HARD PACK)	28	2.1	14
KENT 100	100MM; FILTER; MENTHOL	15	1.2	14
KOOL	REG SIZE; NON-FILTER; MENTHOL	20	1.2	14
KOOL	KING SIZE; FILTER; MENTHOL	16	1.0	14
MARLBORO	KING SIZE; FILTER (HARD PACK)	16	1.0	14
MARLBORO	KING SIZE; FILTER; MENTHOL	16	1.0	14
MARLBORO 100	100MM; FILTER; (HARD PACK)	16	1.0	14
PHILIP MORRIS COMMANDER	KING SIZE; NON-FILTER	26	1.6	14
TAREYTON	KING SIZE; FILTER	13	0.9	14
WINSTON	KING SIZE; FILTER; (HARD PACK)	16	1.1	14
WINSTON INTERNATIONAL 100	100MM; FILTER; (HARD PACK)	16	1.1	14
BENSON & HEDGES 100	100MM; FILTER; (HARD PACK)	16	1.0	15
BENSON & HEDGES 100	100mm; FILTER; MENTHOL: (HARD PACK)	16	1.0	15
BENSON & HEDGES 100	100MM; FILTER	16	1.0	15
BENSON & HEDGES 100	100MM; FILTER; MENTHOL	16	1.0	15
CAMEL -	KING SIZE; FILTER; (HARD PACK)	16	1.1	15
KOOL	KING SIZE; FIL; MENTHOL; (HARD PACK)		1.1	
KOOL SUPER LONGS 100	100MM; FILTER; MENTHOL		0.9	
LARK 100	100MM; FILTER		1.0	
MARLBORO	KING SIZE; FILTER		1.0	
MARLBORO 100	100MM; FILTER		1.0	
MONTCLAIR	KING SIZE; FILTER; MENTHOL		1.0	

TAR NICOTINE AND CO CONTENT OF TWO HUNDRED SEVEN



<sup>&</sup>quot;Dar" - milligrams total particulate matter less nicotine and water per digarette. Nicotine total alkaloids reported in milligrams per digarette. Carton Monocide reported in milligrams per digarette. Indicates "tar" below 0.5 mg.; nicotine below 0.05 mg. or carton monocide below 0.5 mg. per digarette. See statement in text concerning Kool Ultra brands.

	D CO CONTENT OF TWO HUNDRED SEVEN			
	IC CIGARETTES TESTED BY FTC METHOD		~	64
	easing Order of Carbon Monoxide)		발	# K
BRAND	TYPE	•~ •~	E	200
NAME	easing Order of Carbon Monoxide) TYPE	. ≩.	Ŋ.	CARBON MONOXIDE
NEWPORT .	KING SIZE; FIL; MENTHOL; (HARD PACK) KING SIZE; FILTER KING SIZE; NON-FILTER 100MM; FILTER REG SIZE; NON-FILTER; (HARD PACK) 100MM; FILTER; MENTHOL 100MM; FILTER KING SIZE; FILTER KING SIZE; FILTER KING SIZE; NON-FILTER REG SIZE; NON-FILTER KING SIZE; FILTER 100MM; FILTER (HARD PACK) 100MM; FILTER; MENTHOL; (HARD PACK)	16	1.1	15
NEWPORT RED	KING SIZE; FILTER	14	1.0	15
PALL MALL	KING SIZE; NON-FILTER	23	1.3	15
PALL MALL 100	100MM; FILTER	15	1.1	15
PLAYERS	REG SIZE; NON-FILTER; (HARD PACK)	25	1.9	15
SALEM 100	100MM; FILTER; MENTHOL	16	1.2	15
TAREYTON 100	100MM; FILTER	13	0.9	15
WINSTON	KING SIZE; FILTER	16	1.1	15
CENTURY	KING SIZE; FILTER	14	0.9	16
HERBERT TAREYTON	KING SIZE; NON-FILTER	24	1.5	16
LUCKY STRIKE	REG SIZE; NON-FILTER	23	1.4	16
PALL MALL	KING SIZE; FILTER	17	1.1	16
PHILIP MORRIS INTERNATIONAL	100MM; FILTER (HARD PACK)	17	1.1	16
PHILIP MORRIS INTERNATIONAL	100MM; FILTER; MENTHOL; (HARD PACK)	17	1.1	16
RALEIGH	KING SIZE; NON-FILTER	25	1.4	16
RALEIGH	KING SIZE; FILTER	15	0.9	16
SPRING 100	100MM; FILTER; MENTHOL	19	1.1	16
VICEROY	KING SIZE; FILTER	16	0.9	16
VICEROY SUPER LONG 100	100MM; FILTER	14	0.9	16
WINSTON 100	100MM; FILTER	17	1.2	16
HALF & HALF	KING SIZE; FILTER	18	1.3	17
MAX 120	120MM; FILTER	18	1.4	17
MAX 120	120MM; FILTER; MENTHOL	19	1.4	17
NEWPORT	KING SIZE; FILTER; MENTHOL	17	1.2	17
OLD GOLD STRAIGHT	KING SIZE; NON-FILTER	26	1.6	17
RALEIGH 100	100MM; FILTER	10	1.0	1/
TALL 120	12UMM; FILTER; MENTHOL	1/	1.3	1/
OLD GOLD FILTER	KING SIZE; FILTER	1/	7.3	TR
SALEM	KING SIZE; FILTER; MENTHOL	16	Ť•Ť	18
MORE 120	12UMM; FILTER; MENTHOL	10	1.4	19
TALL 120	100MM; FILTER; MENTHOL; (HARD PACK) KING SIZE; NON-FILTER KING SIZE; FILTER 100MM; FILTER; MENTHOL KING SIZE; FILTER 100MM; FILTER 100MM; FILTER 120MM; FILTER 120MM; FILTER 120MM; FILTER 120MM; FILTER 120MM; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL KING SIZE; NON-FILTER 100MM; FILTER 120MM; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL KING SIZE; FILTER; MENTHOL 120MM; FILTER; MENTHOL 120MM; FILTER 120MM; FILTER 100MM; FILTER 100MM; FILTER KING SIZE; FILTER	20	1.5	19
MORE 120	120MM; FILTER	1/	7.2	20
NEWPORT 100	IUUMM; FILTER; MENTHOL	7.A	1.5	<b>∠</b> U
OLD GOLD FILTER 100	TOUMM; FILTER	20	1.5	20
BULL DURHAM	KING SIZE; FILTER	28	T * 9	23

\*\* See statement in text concerning Rool Ultra brands.

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<sup>&</sup>quot;Tar" - milligrams total particulate metter less micotine and water per cigarette. Ricotine total alkaloids reported in milligrams per cigarette. Carbon Moxocide reported in milligrams per cigarette. Indibates "tar" below 0.5 mg.; micotine below 0.05 mg. or carbon monocide below 0.5 mg. per cigarette.

See statement in text